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MP090 'Incorporating Non GBCS Non Mandated Alerts into the SEC'

Business requirements – version 1.1

About this document

This document contains the business requirements for this Modification Proposal. It provides detailed information on the business requirements for the Proposed Solution agreed by the Proposer, with input from the Data Communications Company (DCC) and Sub-Committees. It also provides the considerations and assumptions for each business requirement with respect to this Modification Proposal.

1. Business requirements

This section contains the functional business requirements. Based on these requirements a full solution will be developed.

Business Requirements	
Ref.	**Requirement**
1	Incorporation of Non GBCS Non Mandated Alerts, included, into GBCS.
2	DCC to make consequential changes to Parse and Correlate.
3	DCC to make consequential changes for the Non GBCS Non Mandated Alerts, included, to Appendix AD 'DCC User Interface Specification' (DUIS).

Table 1 below mirrors the Non GBCS Non Mandated (NGNM) Alerts Register held on the SECAS website (https://smartenergycodecompany.co.uk/the-developing-sec/). Subject to review additional NGNM Alerts may be added to the Non GBCS Non Mandated Alerts Register and shall also be covered by this Modification Proposal. The final list of NGNM Alerts targeted for inclusion in GBCS will be established at the time the Final Assessment is carried out by the DCC. Table 1 will be updated accordingly.

Event / Alert Code	Event / Alert Code Name	Trigger conditions
0x81C7	Over Current Level 2	Current over 120% of the Imax rating for more than 20 minutes
0x81C8	Over Current Level 2 L1	Current over 120% of the Imax rating for more than 20 minutes in phase L1
0x81C9	Over Current Level 2 L2	Current over 120% of the Imax rating for more than 20 minutes in phase L2
0x81CA	Over Current Level 2 L3	Current over 120% of the Imax rating for more than 20 minutes in phase L3
0x81CB	Bridged terminals	Bridged terminals are detected
0x81CC	Ultrasonic A flag start	A flag present
0x81CD	Ultrasonic A flag stop	A flag cleared
0x81CE	Ultrasonic B flag start	B flag present
0x81CF	Ultrasonic B flag stop	B flag cleared
0x81D0	Ultrasonic C flag start	C flag present
0x81D1	Ultrasonic C flag stop	C flag cleared
0x81D2	Battery 3% Alert	Battery very low alert (3%)

Table 1 List of current Non GBCS Non-Mandated Alerts

This document contains requirements for multiple solution options, and an assessment for each option is to be provided. The table below summarises the requirements that make up each solution option:

Solution Options			
Option	**Req. 1**	**Req. 2**	**Req. 3**
Option 1	✓		
Option 2	✓	✓	
Option 3	✓	✓	✓

2. Considerations and assumptions

This section contains the considerations and assumptions for each business requirement.

2.1 General

These Alerts are already in use, being sent from devices to DCC Users, and are sent in GBCS format.

2.2 Requirement 1: Incorporation of Non-GBCS Non Mandated Alerts, included, into GBCS

The list of Non GBCS Non Mandated Alerts should be incorporated into table 16.2 of GBCS. These Alerts are already in a GBCS compliant format.

2.3 Requirement 2: DCC to make consequential changes to Parse and Correlate

Consequential changes will need to be made to Parse and Correlate software to allow DCC Users to receive identification information about the Alerts.

2.4 Requirement 3: DCC to make consequential changes for the Non GBCS Non Mandated Alerts, included, to DUIS

Consequential changes will need to be made to DUIS. Those Alerts that are configurable should be set as configurable. Configurable Alert Codes begin either with 0x80 and can be configured by the DNO (Distribution Network Operator), or begin with 0x81 and can be configured by the Supplier; Alert Codes beginning with 0x8F are not configurable. This is with the exception of '0x81D2 – Battery 3% Alert' which should not be configurable.

3. Solution options

This section outlines the solution options for this Modification Proposal. It provides detailed information on the three variants of the proposed solution for the business requirements contained in Section 1 of this document.

3.1 General

To allow SEC Parties to make informed decisions on MP090, each of the combinations of requirements for each solution option is to be assessed. This will allow a cost benefit analysis of each option, and the functionality they provide.

4. Glossary

This table lists all the acronyms used in this document and the full term they are an abbreviation for.

Glossary	
Acronym	**Full term**
DCC	Data Communications Company
DNO	Distribution Network Operator
DUIS	DCC User Interface Specification
ESME	Electricity Smart Metering Equipment
GBCS	Great Britain Companion Specification (SEC Schedule 8)
GSME	Gas Smart Metering Equipment
NGNM Alerts	Non GBCS Non Mandated Alerts
SEC	Smart Energy Code
SECAS	Smart Energy Code Administrator and Secretariat