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MP078 'Incorporation of multiple Issue Resolution Proposals into the SEC - Part 2'

Business requirements – version 0.2

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 needed for each Issue Resolution Proposal (IRP) contained within MP078 that the DCC have indicated could be DCC System impacting. Based on these requirements a full solution will be developed.

Business Requirements	
Ref.	**Requirement**
1	DCC System changes for IRP550 ‘GCS20r - Response when an error occurs’
2	DCC System changes for IRP554 ‘Future Dated command handling if activation in the Past’
3	DCC System changes for IRP582 ‘Read ALCS Event Log values’
4	DCC System changes for IRP603 ‘Security Log display over HAN’

2. Considerations and assumptions

2.1 General

This section contains the considerations and assumptions for each business requirement. These are excerpts from each of the IRPs and it is expected that the DCC will develop solution(s) to the consequential changes these IRPs will have on the DCC Systems. The document text changes are contained within each of the IRPs.

2.2 Requirement 1: DCC System changes for IRP550 'GCS20r - Response when an error occurs'

Errors cannot be signalled via the ZSE Report Event Configuration command which is currently required as the only option in the GCS20r Response. However, errors could occur in Device processing and so the GCS20r Response needs to allow for such situations.

In common with other Use Cases where this situation applies, the proposed change is to allow the GCS20r Response to contain a ZigBee Default Response (as an Alternate Response) to signal any failures.

2.3 Requirement 2: DCC System changes for IRP554 'Future Dated command handling if activation in the Past'

To align with the DCC guidance and to resolve the specification inconsistency, the proposed position is to clarify GBCS section 9.2.2.6 in order to require the CS02b and CS06 specific behaviour required by GBCS sections 11.5.2.2 and 13.3.4.3. These CS02b and CS06 specific requirements mean that the Device generates both a CS02b / CS06 Response and a CS02b / CS06 Alert if executing the CS02b / CS06 Command immediately.

In addition, it is proposed to clarify the wording in GBCS 11.5.2.2 and 13.3.4.3 to make it explicit that, if the executionDateTime is in the past the Command is to be executed immediately and so both the Response and the Alert are to be generated immediately.

2.4 Requirement 3: DCC System changes for IRP582 'Read ALCS Event Log values'

There are 30 possible values of switchNumber And Action in the ALCS Event Log required to meet the SMETS requirements. However, ECS35f currently suggest there are only 20 (the ten related to ALCS Calendar are not listed in the description of the field). To allow these values, align to other parts of GBCS and so align to values used by ESME, the proposed resolution is to revise the ECS35f text to read:

> The first integer shall be the number of the ALCS / HC ALCS (so '[n]' in SMETS terms). The second integer shall be ~~(0x11) On, (0x12) Off~~ (0x01) On from the ALCS Calendar, (0x02) Off from the ALCS Calendar, (0x11) On in a Command to the ESME, (0x12) Off in a Command to the ESME, (0x20) Revert to calendar control or (0x00) Entry relates to a Message from an HC ALCS.

Additionally, three related corrections are also proposed, so as to align to DCC systems and ESME in operation today.

These points are fully explained in Annex A of IRP582.

2.5 Requirement 4: DCC System changes for IRP603 'Security Log display over HAN'

SMETS / GBCS require that:

- the GPF, CHF, GSME and ESME Security Logs can be read by remote parties (and so with access controlled by the DCC);
- the GSME provides changes to its Security Log to the GPF, so that the GPF can maintain a copy of the GSME's Security Log. This copy can be read by remote parties; and
- both the GSME and ESME make their Security Logs available on the user interface (e.g. the meter display) 'following physical access through the Secure Perimeter'.

The design intention was that these would be the only ways to access Security Logs, so the Logs should not be made available to HAN devices (e.g. PPMIDs, IHDs or CADs), by either the CH or the ESME (GSME do not communicate with HAN Devices, except for the CH).

Further, GSME and ESME should not make Security Logs available on the User Interface, unless there has been 'physical access through the Secure Perimeter'.

However, there are no explicit prohibitions currently for:

- sharing Security Logs with HAN devices; or
- only displaying security logs without access through the Secure Perimeter. The proposed position is to amend SMETS (for ESME and GSME) and CHTS (for CH) to add explicit prohibitions.

3. Glossary

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

Glossary	
Acronym	**Full term**
ALCS	Auxiliary Load Control Switch
CAD	Consumer Access Device
CH	Communications Hub
CHTS	CH Technical Specifications
DCC	Data Communications Company
ESME	Electronic Smart Metering Equipment
GBCS	Great Britain Companion Specifications
GPF	Gas Proxy Function
GSME	Gas Smart Metering Equipment
HAN	Home Area Network
HCALCS	Han Connected Auxiliary Load Control Switch
IHD	In-Home Display
IRP	Issue Resolution Proposal
PPMID	Pre-Payment Meter Interface Device
SECAS	Smart Energy Code Administrators and Secretariat
SMETS	Smart Metering Equipment Technical Specifications