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DP194 'Incorporation of Category 2 Issue Resolution Proposals into the SEC – Batch 7'

Annex A

Legal text – version 0.1

About this document

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

SEC Schedule 8 'Great Britain Companion Specification' (GBCS) version 4.x

These changes have been drafted against SEC Schedule 8 version 4.0.

These changes will be applied to the next version of the GBCS v4.x series at the time the modification is implemented. These will also be applied to the next version of any subsequent GBCS series introduced on or before the modification is implemented.

Amend Section 10.6.2.4 as follows:

10.6.2.4 CHF Sub GHz Alerts and corresponding events

Dual Band CH shall be capable of generating all Sub GHz Alerts and corresponding Log Entries, and shall generate the triggering events, and corresponding Alerts and Log Entries in line with the requirements of Table **Error! Reference source not found.** and Table **Error! Reference source not found.**.

For clarity, in relation to any Sub GHz Alert:

- the Business Target ID shall always be the Entity Identifier in the CHF's {accessControlBroker, keyAgreement, management} Trust Anchor Cell;

- the Business Originator ID shall be the CHF's Entity Identifier; and

- the Alert Payload shall always, as a DLMS COSEM based payload, be constructed as per Table **Error! Reference source not found.**c.

Event / Alert Code Meaning	Requirements

Limited Duty Cycle Action Taken	This event shall occur when the CH measurement of Duty Cycle rises above the Normal-Limited Duty Cycle Threshold.
	
	When this occurs, the CH shall:
	
	1) identify the Device which has the largest value from the MacRxUcastDeltaSum Matrix and set 'Device ID' accordingly;
	
	2) create an entry in the Event Log with Event Code set to 0x8F20 and otherInfo set to 'Device ID';
	
	3) send a 'DBCH06 Limited Duty Cycle Action Taken Sub GHz Alert' with:
	    a) the Message Code set to 0x0110;
	    b) the Alert Code set to 0x8F20; and
	    c) the Use Case Specific Additional Content set to the concatenation 0x0908 || 'Device ID';
	
	4) if 'Device ID' is not that of a GSME, the CH shall send to that Device a *Suspend ZCL Messages* command with the *Suspension Period* parameter set to Suspension Period; and
	
	5) if 'Device ID' is that of a GSME, in the *Suspend ZCL Messages* command response to the next *Get Suspend ZCL Messages Status* command received by the CH from that GSME, the CH shall set the *Suspension Period* parameter to Suspension Period.
	
	For clarity, SMHAN communications with the specified Device will not be possible for Suspension Period

Event / Alert Code Meaning	Requirements
Duty Cycle fallen below Normal-Limited Duty Cycle Threshold	This event shall occur when the CH measurement of Duty Cycle falls back below the Normal-Limited Duty Cycle Threshold
Critical Duty Cycle Action Taken	This event shall occur when the CH takes the action in ZSE 5.14.6 point 6 For clarity, SMHAN communications with any Sub GHz End Device except GSME will not be possible for Suspension Period starting at the date-time in the Alert / CHF Event Log Entry. Further, OTA firmware downloads to GSME will pause for this period. No Remote Party Commands will be sent to Sub GHz End Devices during this period (although Alerts and Responses may be received from GSME)
Duty Cycle fallen below Limited-Critical Duty Cycle Threshold	This event shall occur when the CH measurement of Duty Cycle falls back below the Limited-Critical Duty Cycle Threshold
Regulated Duty Cycle Action Taken	This event shall occur when the CH takes the action in ZSE 5.14.6 point 7
Duty Cycle fallen below Critical-Regulated Duty Cycle Threshold	This event shall occur when the CH measurement of Duty Cycle falls back below the Critical-Regulated Duty Cycle Threshold
Sub GHz Channel Changed	This event shall occur when a CH begins operating on a new Sub GHz Channel. For clarity, this includes the Sub GHz Channel selected by the CH on SMHAN network formation The resulting Alert and Log entry shall be created as per the requirements of Section **Error! Reference source not found.** and Section **Error! Reference source not found.**. Note these events are recorded in the dedicated Sub GHz Channel Log and not in the CHF Event Log
Sub GHz Channel Scan initiated	This event shall occur whenever the CH undertakes the processing of Section **Error! Reference source not found.**.
Sub GHz Channel Scan Request Assessment Outcome	This event shall occur when a Sub GHz Channel Scan trigger has been assessed by the CH, as per the requirements of Section **Error! Reference source not found.**. The resulting Alert and Event shall record both the nature of the triggering event and the outcome of the assessment checks, so including whether a resulting Sub GHz Channel Scan was triggered
Sub GHz Channel not changed due to Frequency Agility Parameters	This event occurs when a Sub GHz Channel scan has been undertaken but the CH determines not to change the Sub GHz Channel
Three Lost GSME	When 'Unrequited Lost GSME Searches' reaches three and 24 hours has elapsed since the most recent Sub GHz Channel Change, this event shall occur

Event / Alert Code Meaning	Requirements
Searches Failed	
Sub GHz Configuration Changed	This event shall occur when the CHF updates attribute 2 of object with OBIS Code 0-0:94.44.10.0
Message Discarded Due to Duty Cycle Management	The event shall occur as specified in Section **Error! Reference source not found.**

No More Sub GHz Device Capacity	The event shall occur when:
	
	• using a 'CCS01 Add Device to CHF device log' Command, a Device is added to the CHF Device Log which is not a GSME, SAPC or HCALCS;
	
	• there are already four Devices in the CHF Device Log, which are not HCALCS, SAPC or GSME, that joined the SMHAN on a Sub GHz frequency; and
	
	• the Device added then attempts to join the SMHAN on a Sub GHz Frequency.
	
	On occurrence of this event, the CH shall:
	
	1) not allow the Device to join the SMHAN on a Sub GHz Frequency;
	
	2) create an entry in the Event Log with Event Code set to 0x8F2D and otherInfo set to 'Device ID' of the Device concerned; and
	
	3) send a 'DBCH11 No More Sub GHz Device Capacity Sub GHz Alert' with:
	
	    a) the Message Code set to 0x0115;
	
	    b) the Alert Code set to 0x8F2D; and
	
	    c) the Use Case Specific Additional Content set to the concatenation 0x0908 || 'Device ID'

Table **Error! Reference source not found.**: CHF Sub GHz Alerts and related Events