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MP220 ‘MMC Changes resulting from GBCS v4.1 Device Testing’

Annex A

Legal text – version 1.0

About this document

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

Appendix AD ‘DCC User Interface Specification’

These changes have been redlined against Appendix AD version 5.1.

Add Section 1.4.7.16 as follows:

1.4.7.16 Update Inventory SRV 8.4

This clause is a supplement to clause 3.8.106.4

For SMETS1 Devices with Device Type ESME, the ESME Variant cannot be updated by the Registered Supplier Party for the MPAN associated with the Device if the Device has a status of ‘Whitelisted’, ‘Installed Not Commissioned’ or ‘Commissioned’.

Where the Service Request relates to a SMETS1 ESME and is requesting such an update to the ESME Variant the DCC shall return a Response containing a Response Code of E080407.

Amend Section 3.8.106.2 as follows:

3.8.106.2

Specific Data Items for this Request

UpdateInventory Definition

Data Item	Description / Values	Type	Mandatory	Default	Units
DeviceID	Device ID of the Device to be updated (status or details) or deleted.	sr:EUI (See clause 3.10.1.3)	Yes	None	N/A
UpdateDeviceStatusExceptCH	An indicator giving the status to be recorded for the Device (Not applicable to CHF, GPF or Type 2 Devices) Valid set - Pending - InstalledNotCommissioned	sr:UpdateDeviceStatusExceptCH Restriction of xs:string (Enumeration)	One and only one of these items must be set	None	N/A
UpdateDeviceStatusCH	An indicator giving the SMI Status to be recorded for the CHF and its associated GPF Valid set - Commissioned - InstalledNotCommissioned - Withdrawn	sr:UpdateDeviceStatusCH Restriction of xs:string (Enumeration)		None	N/A
UpdateDeviceDetails	Details to be updated, for a Device in a status of ‘Pending’	sr:UpdateDeviceDetails		None	N/A

DeleteDevice	Device, in a status of 'Pending', is to be deleted	sr>DeleteDevice		None	N/A
UpdateMPxN	The MPxN to be associated with the device within the Smart Metering Inventory to be updated	sr:UpdateMPxN		None	N/A

Table 231 : UpdateInventory (sr:UpdateInventory) data items

Appendix AF ‘Message Mapping Catalogue’

These changes have been redlined against Appendix AF version 5.1.

Amend Section 4.2 as follows:

4.2.1 Message codes for Device Alerts

All Device Alerts include both a Message Code within the Header element (see section 3) and an Alert Code within DeviceAlertContent.

Many Device Alerts will share the same common message codes, being either 0x1000 (denoting Critical) or 0x1001 (denoting Non Critical). The Device Alerts that use a specific Message Code instead of such generic codes shall be as defined in GBCS and as listed in Table 10 as set out immediately below.

Device Alerts which use the generic message codes are defined in GBCS and are not listed below.

The MMC Output Format for all Device Alerts which have specific Message Codes shall include additional information within the Payload data item, as set out in Section 4.2.2 of this document. Message Codes shall conform to the “xs:hexBinary” XML type and shall omit any leading “0x” value that would ordinarily appear in the corresponding GBCS code as shown in the table below.

GBCS Version	Message Code	Purpose	Alert Codes
>= 1.0	0x0061	GBCS Use Case ECS68 ESME Critical Sensitive Alert (Billing Data Log)	0x8F0A
>= 1.0	0x0067	GBCS Use Case ECS80 Supply Outage Restore Alert from ESME	0x8F35, 0x8F36, 0x8F37, 0x8F38, 0x8F39, 0x8F3A, 0x8F3B, 0x8F3C
>= 1.0	0x008B	GBCS Use Case GCS53, GSME Push Billing Data Log as an Alert	0x8F0A
>= 1.0	0x00CA	Future Dated Firmware Activation Alert	0x8F66, 0x8F67
>= 1.0	0x00CB	Future Dated Updated Security Credentials Alert	0x8F66, 0x8F67
>= 1.0	0x00CC	Future Dated Execution Of Instruction Alert (DLMS COSEM)	0x8F66, 0x8F67
>= 1.0	0x00CD	Future Dated Execution Of Instruction Alert (GBZ)	0x8F66, 0x8F67
>= 1.0 and modified in 4.1	0x00CE	Firmware Distribution Receipt Alert (ESME/ HCS)	0x8F72, 0x8F1C
>= 4.1	<u>0x012C</u>	<u>Firmware Distribution Receipt Alert (HCALCS)</u>	<u>0x8F72, 0x8F1C</u>
>= 1.0	0x00CF	Firmware Distribution Receipt Alert (GSME)	0x8F72, 0x8F1C
>= 2.0	0x00F0	Meter Integrity Issue Warning Alert - ESME	0x81A0

>= 2.0	0x00F2	Meter Integrity Issue Warning Alert – GSME	0x81A0
>= 1.0	0x1000	Generic Critical Alert	As set out in GBCS
>= 1.0	0x1001	Generic Non Critical Alert	As set out in GBCS
>= 4.0	0x0120	GBCS Use Case ECS100 Command not supported by Device.	0x8F85
>= 4.0	0x0121	GBCS Use Case ECS101 Limit APC [n] Level Command processed	0x8F86
>= 4.0	0x0122	GBCS Use Case ECS102 Limit APC [n] Level ended or cancelled	0x8F87
>= 4.0	0x0123	GBCS Use Case ECS200 Operational Update.	0x8F88
>= 4.0	0x0124	Future Dated Updated Security Credentials Alert (Load Controller only)	0x8F66, 0x8F67

Table 10 : Device Alert GBCS Message Codes

Payload in Device Alerts

The MMC Message Format for all Device Alerts which contain additional Payload data are as listed in Table 11 as set out immediately below. Where a Device Alert is associated with a specific GBCS Use Case, this is indicated in Table 11.

GBCS Version	Alert Code(s)	Description	GBCS Use Case (where applicable)	Message Code	Section detailing XML contents	Applicable to SMETS1 Alerts?
>= 1.0	0x8F0A	Billing Data Log Updated (Electricity)	ECS68 ESME Critical Sensitive Alert (Billing Data Log)	0x0061	6.2	No
>= 1.0	0x8F0A	Billing Data Log Updated (Gas)	GCS53, GSME Push Billing Data Log as an Alert	0x008B	6.2	No
>= 1.0 and modified in 4.1	0x8F1C	Firmware Verification Status (Firmware Distribution Receipt) - Failed	CS05b	0x00CE (Firmware Distribution Receipt Alert (ESME/ H CALCS)), <u>0x012C (Firmware Distribution Receipt Alert (H)CALCS)).</u> <u>0x00CF (Firmware Distribution Receipt Alert (GSME))</u>	6.1	Yes

GBCS Version	Alert Code(s)	Description	GBCS Use Case (where applicable)	Message Code	Section detailing XML contents	Applicable to SMETS1 Alerts?
>= 1.0	0x8F35 0x8F36, 0x8F37, 0x8F38, 0x8F39, 0x8F3A, 0x8F3B, 0x8F3C	Supply Outage Restored Alert	ECS80 Supply Outage Restore Alert from ESME	0x0067	6.3	No
>= 1.0 and modified in 4.0	0x8F66	Future-Dated Command Outcome Action Successful	Any GBCS Use Case that supports Future Dated Services.	0x00CA (Future Dated Firmware Activation Alert), 0x00CB (Future Dated Updated Security Credentials Alert), 0x00CC (Future Dated Execution Of Instruction Alert - DLMS COSEM) or 0x00CD (Future Dated Execution Of Instruction Alert - GBZ) GBCS v4.0 or later: 0x0124 (Future Dated Update Load Controller Security Credentials Alert)	6.4	No
>= 1.0	0x8F67	Future-Dated Command Outcome Action Failed	Any GBCS Use Case that supports Future Dated Services.	As for Alert Code 0x8F66	6.4	No

GBCS Version	Alert Code(s)	Description	GBCS Use Case (where applicable)	Message Code	Section detailing XML contents	Applicable to SMETS1 Alerts?
>= 1.0 and modified in 4.1	0x8F72	Firmware Verification Status (Firmware Distribution Receipt) - Successful	CS05b	0x00CE (Firmware Distribution Receipt Alert (ESME/ H CALCS)), <u>0x012C (Firmware Distribution Receipt Alert (H)CALCS).</u> <u>0x00CF (Firmware Distribution Receipt Alert (GSME))</u>	6.1	Yes
>= 2.0	0x81A0	Smart Meter Integrity Issue – Warning	Smart Meter Integrity Issue – Warning from ESME or GSME	0x00F0 (Meter Integrity Issue Warning Alert – ESME) 0x00F2 (Meter Integrity Issue Warning Alert – GSME)	6.5	No
>= 4.0	0x8F85	ECS100 Command not supported by Device	ECS100	0x0120	6.6	No
>= 4.0	0x8F86	ECS101 Limit APC [n] Level Command processed	ECS101	0x0121	6.7	No
>= 4.0	0x8F87	ECS102 Limit APC [n] Level ended or cancelled	ECS102	0x0122	6.8	No
>= 4.0	0x8F88	ECS200 Operational Update	ECS200	0x0123	6.9	No

Table 11 : Device Alerts with Additional Payload

Amend Section 6.1.1 as follows:

6 DEVICE ALERT MMC OUTPUT FORMAT DEFINITIONS

6.1 Firmware Verification Status (Alert Codes 0x8F1C and 0x8F72)

Upon completion of a Firmware verification performed as part of the distribution of Firmware upgrades, the associated Device Alert shall be one of the following:

- a) Device Alert with Alert Code 0x8F1C, indicating that the image verification failed; or
- b) Device Alert with Alert Code 0x8F72, indicating that the image verification was successful.

The same Payload element is included in the case of Firmware image verification success or failure.

The xml type within the DeviceAlertMessagePayload element is FirmwareVerificationDeviceAlertType. The header and body data items appear as set out immediately below.

6.1.1 Specific Header Data Items

GBCS version earlier than v4.1:

Data Item	Electricity Alert	Gas Alert
GBCSHexadecimalMessageCode	0x00CE	0x00CF
GBCS Use Case	CS05b	CS05b

Table 248 : Firmware Verification Device Alerts MMC Output Format Header data items - GBCS version earlier than v4.1

GBCS v4.1 or later:

Data Item	Electricity Alert		Gas Alert
DeviceType	ESME	HCALCS	
GBCSHexadecimalMessageCode	0x00CE	0x0012CE	0x00CF
GBCS Use Case	CS05b	CS05b	CS05b

Table 248.1 : Firmware Verification Device Alerts MMC Output Format Header data items – GBCS v4.1 or later

Amend Section 7 as follows:

7 ANNEX A – MMC XML SCHEMA

The MMC XML Schema is enclosed in the embedded document below.



**MMC Schema
v5.1.xsd**



**MMC Schema
v5.2.xsd**