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MP192 ‘Extend Scheduled Services for SMETS1 Devices’

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.

Appendix AD ‘DCC User Interface Specification’

These changes have been redlined against Appendix AD version 5.0.

Add Sections 1.4.7.16 and 1.4.7.17 as follows:

1.4.7.15 Read Inventory SRV 8.2

This clause is a supplement to clause 3.8.99.4.

For a SMETS1 Device, the list of valid values for "CSPRegion" shall include 'SMETS1'.

For a SMETS1 Device, the Response shall additionally include the following Data Items:

Data Item	Description / Values	Type	Mandatory	Default	Units
Per Device (complex type sr:Device) found at that Smart Metering System:					
S1SP	Identifier of the relevant SMETS1 Service Provider for the Smart Metering System	xs:string	No	None	N/A

Table 3 : SRV 8.2 Additional SMETS1 Response Data Items

1.4.7.16 Read Instantaneous Prepay Values SRV 4.3

This clause is a supplement to clause 3.8.22.

For a SMETS1 Device, SRV 4.3 shall be capable of being DCC Scheduled.

1.4.7.17 Retrieve Billing Calendar Triggered Billing Data Log SRV 4.4.3

This clause is a supplement to clause 3.8.24.

For a SMETS1 Device, SRV 4.4.3 shall be capable of being DCC Scheduled.

1.4.8 Sensitive Data

E54 shall apply to SMETS1 Service Requests in exactly the same way as for SMETS2+ Devices even though SMETS1 Responses never contain encrypted data.

Add Section 1.4.15 as follows:

1.4.14 Sequenced Services

The condition in clause 2.6.4 which states that Service Requests for which the “Transform” Command Variant has been specified may not be sequenced shall not apply to SMETS1 Critical Service Requests.

1.4.15 DCC Scheduled Services

Service Reference Variants 4.3 and 4.4.3 shall be capable of being DCC Scheduled for SMETS1 Devices, and are recorded as such in clause 3.1 Service Request Matrix for Mode of Operation ‘DCC Scheduled’.

2 THE INTERFACE

Definitions in this clause 2 apply to SMETS1 Devices as well as SMETS2+ Devices except where specified or where varied by statements in clause 1.4.

Amend Section 3.1 and Table 18 as follows:

3 MESSAGES SENT OVER THE INTERFACE

3.1 Service Request Matrix

For each Service Request, this section sets out the following attributes:

- Service Request Name
- Service Reference
- Service Reference Variant
- whether the Service Request is Critical or Non-Critical
- modes of operation which vary how the Service Request or Signed Pre-Command will be executed, along with applicability of that mode of operation.
- whether or not the Service Request is a Non-Device Service Request
- the User Roles eligible to submit the Service Request
- whether the Service Request is available as a SMETS1 Service Request

User Role Reference	User Role Description
IS	Import Supplier
ES	Export Supplier
GS	Gas Supplier
RSA	Registered Supplier Agent
ED	Electricity Distributor
GT	Gas Transporter
OU	Other User

Table 17 : User Roles

The following table (the “Service Request Matrix”) sets out these attributes (i.e. the ones referred to above) for each Service Request. The description of Eligible User Roles is only a summary, as further qualifications concerning Eligible User Roles are set out in the DCC User Interface Services Schedule.

Service Request Name	Service Reference	Service Reference Variant	Critical	Modes of Operation				Eligible User Roles	Available in relation to SMETS1 Devices
				On Demand	Future Dated Response Pattern	DCC Scheduled	Non-Device Request		
Update Import Tariff (Primary Element)	1.1	1.1.1	Yes	Yes	Device	No	No	IS GS	Yes
Update Import Tariff (Secondary Element)	1.1	1.1.2	Yes	Yes	Device	No	No	IS	No
Update Price (Primary Element)	1.2	1.2.1	Yes	Yes	Device	No	No	IS GS	Yes
Update Price (Secondary Element)	1.2	1.2.2	Yes	Yes	Device	No	No	IS	No
Update Meter Balance	1.5	1.5	Yes	Yes	No	No	No	IS GS	Yes
Update Payment Mode	1.6	1.6	Yes	Yes	Device	No	No	IS GS	Yes
Reset Tariff Block Counter Matrix	1.7	1.7	Yes	Yes	No	No	No	IS	No
Update Prepay Configuration	2.1	2.1	Yes	Yes	Device	No	No	IS GS	Yes
Top Up Device	2.2	2.2	No	Yes	No	No	No	IS GS	Yes
Update Debt	2.3	2.3	Yes	Yes	No	No	No	IS GS	Yes
Activate Emergency Credit	2.5	2.5	Yes	Yes	No	No	No	IS GS	Yes
Display Message	3.1	3.1	No	Yes	DSP	No	No	IS GS	No
Restrict Access For Change Of Tenancy	3.2	3.2	No	Yes	DSP	No	No	IS GS	Yes
Clear Event Log	3.3	3.3	No	Yes	No	No	No	IS GS	Yes
Update Supplier Name	3.4	3.4	No	Yes	DSP	No	No	IS GS	No
Disable Privacy PIN	3.5	3.5	No	Yes	No	No	No	IS GS	No

Service Request Name	Service Reference	Service Reference Variant	Critical	Modes of Operation				Eligible User Roles	Available in relation to SMETS1 Devices
				On Demand	Future Dated Response Pattern	DCC Scheduled	Non-Device Request		
Read Instantaneous Import Registers	4.1	4.1.1	No	Yes	DSP	No	No	IS GS ED GT	Yes
Read Instantaneous Import TOU Matrices	4.1	4.1.2	No	Yes	DSP	No	No	IS GS ED GT	Yes
Read Instantaneous Import TOU With Blocks Matrices	4.1	4.1.3	No	Yes	DSP	No	No	IS ED	Yes
Read Instantaneous Import Block Counters	4.1	4.1.4	No	Yes	DSP	No	No	GS	Yes
Read Instantaneous Export Registers	4.2	4.2	No	Yes	DSP	No	No	ES ED	Yes
Read Instantaneous Prepay Values	4.3	4.3	No	Yes	DSP	No <u>SMETS1</u>	No	IS GS	Yes
Retrieve Change Of Mode / Tariff Triggered Billing Data Log	4.4	4.4.2	No	Yes	DSP	No	No	IS GS	Yes
Retrieve Billing Calendar Triggered Billing Data Log	4.4	4.4.3	No	Yes	DSP	No <u>SMETS1</u>	No	IS GS	Yes
Retrieve Billing Data Log (Payment Based Debt Payments)	4.4	4.4.4	No	Yes	DSP	No	No	GS IS	Yes
Retrieve Billing Data Log (Prepayment Credits)	4.4	4.4.5	No	Yes	DSP	No	No	GS IS	Yes

Table 18 : Service Request Matrix

Amend Sections 3.8.22.1 and 3.8.24.1 as follows:

3.8.22 Read Instantaneous Prepay Values

3.8.22.1 Service Description

Service Request Name	ReadInstantaneousPrepayValues	
Service Reference	4.3	
Service Reference Variant	4.3	
Eligible Users	Import Supplier (IS) Gas Supplier (GS)	
Security Classification	Non Critical	
BusinessTargetID - Device applicable to this request	Electricity Smart Meter (ESME) Gas Smart Meter (GSME) Gas Proxy Function (GPF)	
Can be future dated?	DSP	
On Demand?	Yes	
Capable of being DCC Scheduled?	No Yes – SMETS1 only	
Command Variants applicable to this Request (Only one populated)	1 - Send (Non-Critical) 2 - Return for local delivery (Non-Critical) 3 - Send and Return for local delivery (Non-Critical)	
Common Header Data Items	See clause 3.4.1.1	
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 3.5 for more details on processing patterns <ul style="list-style-type: none"> 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 3.5.10 for Common Response Codes	
GBCS Cross Reference	Electricity	Gas
GBCS MessageCode	0x002D	0x0075
GBCS Use Case	ECS19	GCS14

3.8.22.2 Specific Data Items for this Request

ReadInstantaneousPrepayValues Definition

Data Item	Description / Allowable values	Type	Mandatory	Default	Units
ExecutionDateTime	<p>A User shall only add this Data Item to the Service Request where they require the Service Request to be executed at a future date and time.</p> <p>The UTC date and time the User requires the command to be executed on the Device.</p> <p>Date-time in the future that is either \leq current date + 30 days or the date = '3000-12-31T00:00:00Z'</p>	xs:dateTime	No	N/A	UTC Date-Time

Table 131 : ReadInstantaneousPrepayValues (sr:FutureDatedAbstractType) data items

3.8.22.3 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 and also Execution Date Time validation (clause 3.10.2).

3.8.23 Retrieve Change Of Mode / Tariff Triggered Billing Data Log

3.8.23.1 Service Description

Service Request Name	RetrieveCoMOrTariffTriggeredBillingDataLog	
Service Reference	4.4	
Service Reference Variant	4.4.2	
Eligible Users	Import Supplier (IS) Gas Supplier (GS)	
Security Classification	Non Critical	
BusinessTargetID - Device applicable to this request	Type Electricity Smart Meter (ESME) Gas Smart Meter (GSME) Gas Proxy Function (GPF)	
Can be future dated?	DSP	
On Demand?	Yes	
Capable of being DCC Scheduled?	No	
Command Variants applicable to this Request (Only one populated)	1 - Send (Non-Critical) 2 - Return for local delivery (Non-Critical) 3 - Send and Return for local delivery (Non-Critical)	
Common Header Data Items	See clause 3.4.1.1	
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 3.5 for more details on processing patterns <ul style="list-style-type: none"> 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 3.5.10 for Common Response Codes	
GBCS Cross Reference	Electricity	Gas
GBCS MessageCode	0x002F	0x00C3
GBCS Use Case	ECS20b	GCS15b

3.8.23.2 *Specific Data Items for this Request*

RetrieveCoMOrTariffTriggeredBillingDataLog
(sr:ReadLogfutureDataAndURPCredentials) Definition

Data Item	Description / Allowable values	Type	Mandatory	Default	Units
ExecutionDateTime	A User shall only add this Data Item to the Service Request where they require the Service Request to be executed at a future date and time. The UTC date and time the User requires the command to be executed on the Device Date-time in the future that is either <= current date + 30 days or the date = '3000-12-31T00:00:00Z'	xs:dateTime	No	None	UTC Date-Time
ReadLogPeriod	The Start and End Date-Times for which the data is required	sr:ReadLogPeriod (see clause 3.10.1.14)	Yes	None	N/A
KAPublicSecurityCredentials	The Key Agreement Public Security Credentials (of the requesting party) to be used where the request is from an Unknown Remote Party (i.e. Old Responsible Supplier) with respect to the BusinessTargetID specified within the Service Request.	sr:Certificate (xs:base64Binary)	Responsible Supplier: N/A Old Responsible Supplier: Yes Mandatory for User Roles IS/GS that do not have their credentials on the Device when sending the Service Request e.g. Old Suppliers	None	N/A

**Table 132 : RetrieveCoMOrTariffTriggeredBillingDataLog
(sr:ReadLogfutureDataAndURPCredentials) data items**

3.8.23.3 *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 and clause 3.10.2 for ExecutionDateTime, Read Log Period, Key Agreement Public Security Credentials and Device Applicability validation.

3.8.24 Retrieve Billing Calendar Triggered Billing Data Log

3.8.24.1 Service Description

Service Request Name	RetrieveBillingCalendarTriggeredBillingDataLog	
Service Reference	4.4	
Service Reference Variant	4.4.3	
Eligible Users	Import Supplier (IS) Gas Supplier (GS)	
Security Classification	Non Critical	
BusinessTargetID - Device applicable to this request	Electricity Smart Meter (ESME) Gas Smart Meter (GSME) Gas Proxy Function (GPF)	
Can be future dated?	DSP	
On Demand?	Yes	
Capable of being DCC Scheduled?	No Yes – SMETS1 only	
Command Variants applicable to this Request (Only one populated)	1 - Send (Non-Critical) 2 - Return for local delivery (Non-Critical) 3 - Send and Return for local delivery (Non-Critical)	
Common Header Data Items	See clause 3.4.1.1	
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 3.5 for more details on processing patterns <ul style="list-style-type: none"> 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 3.5.10 for Common Response Codes	
GBCS Cross Reference	Electricity	Gas
GBCS MessageCode	0x0030	0x0076
GBCS Use Case	ECS20c	GCS15c

Amend Table 157 and Section 3.8.43.3 as follows:

3.8.43.2 Specific Data Items for this Request

CreateSchedule Definition

Data Item	Description / Valid Set	Type	Mandatory	Default	Units
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ScheduleFrequency	<p>The frequency of which the required service reference is executed</p> <p>Valid set</p> <ul style="list-style-type: none"> Daily Weekly (The specified Service Request will be scheduled once a week, on the Schedule Start Date day of the week.) Monthly (The specified Service Request will be scheduled once a month, on the Schedule Start Date day of the month, where possible. For those months where the Schedule Start Date day of the month doesn't exist, the Service Request will be scheduled on the last day of that month.) Quarterly (The specified Service Request will be scheduled once every three months, with Scheduled Start Date as for Monthly.) Half-Yearly (The specified Service Request will be scheduled once every six months, with Scheduled Start Date as for Monthly.) Yearly (The specified Service Request will be scheduled once every 12 months, with Scheduled Start Date as for Monthly.) 	sr:ScheduleFrequency (Restriction of xs:string (Enumeration))	Yes	None	N/A
ScheduleStartDate	<p>The UTC date that the scheduled repeating request is required to commence from</p> <ul style="list-style-type: none"> Valid date in the future 	xs:date	Yes	None	UTC Date
ScheduleEndDate	<p>The UTC date that the scheduled repeating request is required to cease, or if not present then the repeating schedule shall remain in force until deleted by the User or by the DCC Systems, e.g. because of Device Decommission</p> <ul style="list-style-type: none"> Valid date in the future \geq ScheduleStartDate 	xs:date	<p>User Role IS, GS, ES, ED, GT: No</p> <p>User Role OU: Yes</p>	None	UTC Date

ScheduleExecutionStartTime	The UTC start time after which a scheduled Command (invoked by the schedule) may be run <ul style="list-style-type: none"> Valid Time 	xs:time	No	00:01:00	UTC Time
KAPublicSecurityCredential	The Key Agreement Public Security Credentials, associated with the User submitting the Request that will be relied upon for Sensitive data Responses. Only applicable to those Scheduled Service Requests that can be submitted by User Roles for which the Device doesn't hold Security Credentials.	sr:Certificate (xs:base64Binary)	User Role IS, ES, ED: N/A User Role GT (where Response includes sensitive data and Device Type = Gas Smart Meter): Yes User Role OU (where Response includes sensitive data): Yes	None	N/A
DSPScheduledServiceReference	Reference of the Service Request to be Scheduled. Valid Set: see clause 3.1 , where DCC Scheduled column in table is set to "Yes"	sr:DSPScheduledServiceReference (Restriction of xs:string (Enumeration))	Yes	None	N/A
DSPScheduledServiceReferenceVariant	Reference Variant of the Service Request to be Scheduled. Valid Set: see clause 3.1 , where DCC Scheduled column in table is set to "Yes"	sr:DSPScheduledServiceReferenceVariant (Restriction of xs:string (Enumeration))	Yes	None	N/A
DeviceID	This is the Device ID to which the DCC Schedule is targeted.	sr:EUI (See clause 3.10.1.3)	Yes	None	N/A

Choice of Service Request XML Element to be Scheduled	Name and Request Data Items corresponding to DSPScheduledServiceReferenceVariant to be Scheduled, choice of:		Yes	None	N/A
	DSPRetrieveBillingCalendarTriggeredBillingDataLog DSPRetrieveImportDailyReadLog DSPRetrieveExportDailyReadLog DSPReadActiveImportProfileData DSPReadReactiveImportProfileData DSPReadExportProfileData DSPReadNetworkData DSPReadPrepaymentDailyReadLog DSPRetrieveDailyConsumptionLog	sr:ReadLogPeriodOffset			
	DSPRetrieveBillingCalendarTriggeredBillingDataLog DSPReadMaximumDemandImportRegisters DSPReadMaximumDemandExportRegisters DSPReadLoadLimitData DSPReadActivePowerImport	sr:DSPReadData			
	DSPRecordNetworkDataGAS	sr:RecordNetworkDataGAS			

Table 157 : CreateSchedule (sr:DSPSchedule) data items

Each User shall set up separate Schedule IDs for each separate Request that they require to be scheduled by the DCC.

3.8.43.3 Specific Validation for this Request

See clause 3.2.5 for general validation applied to all Requests (applicable to the Create Schedule and to the Scheduled Service Request) and clause 3.10.2 for Create Schedule Device ID existence validation.

Response Code	Response Code Description
E050101	The Schedule Start Date is not a future date
E050102	The Schedule End Date is mandatory for User Role “OU”
E050103	The Schedule End Date is earlier than the Schedule Start Date
E050105	The Service Request format does not match the Service Reference Variant in the DCC Schedule. The combination of DSPScheduledServiceReference and DSPScheduledServiceReferenceVariant is not valid
E050107	One of: <ul style="list-style-type: none"> User’s Role is Unknown Remote Party to the Device and the DCC Scheduled Service Response contains Sensitive data and Request does not include the User’s Key Agreement Public Security Credentials Or

	<ul style="list-style-type: none"> User's Role is Known Remote Party to the Device and / or the DCC Scheduled Service Response doesn't contain Sensitive data and Request includes the User's Key Agreement Public Security Credentials
E050108	Unable to create Schedule, because the User already owns 99 active DSP Schedules for the Device
E050109	The DSP Service Request format doesn't match the DSP Service Reference Variant in the Create Schedule message
<u>E050111</u>	<u>The Service Reference Variant in the Create Schedule message is not supported for scheduling for SMETS2+ Devices.</u>

3.8.43.4 Specific Data Items in the Response

The DCC shall return the following data items which are specific to this Service Request where a DCC Schedule is successfully created within the DCC Systems:

DSPScheduleID Definition

Data Item	Description / Valid Set	Type	Mandatory	Default	Units
DSPScheduleID	Schedule ID generated by the DCC Systems Valid Set: > 0	sr:scheduleID	Yes	None	N/A

Table 158 : DSPScheduleID definition