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MP247 ‘Future Dating of Service Requests for SMETS1 Devices’

Annex A

Business requirements – version 0.2

About this document

This document contains the business requirements that support the solution(s) for this Modification Proposal. It sets out the requirements along with any assumptions and considerations. The Data Communications Company (DCC) will use this information to provide an assessment of the requirements that help shape the complete solution.

1. Business requirements

This section contains the functional business requirements. Based on these requirements a full solution will be developed. This section contains a must-have (M), should-have (S), could-have (C), won't-have (W) (MoSCoW) analysis for the different requirement components to be considered as part of the solution.

Business Requirements			
Ref.	Requirement	Responsible for delivery	MoSCoW
1	DCC Users must be able to send Device Future Dated Service Request (SR) to any Smart Metering Equipment Technical Specifications (SMETS)1 Device.	DCC	M
2	DCC User systems will not require changes to support Device Future Dated SRs.	DCC	M
3	DCC User processes to remain consistent for all different SMETS1 Device Models.	DCC	M
4	Reporting to monitor Future Dated SRs sent to and stored on SMETS1 Devices	DCC	M

2. Considerations and assumptions

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

2.1 General

To help smooth peaks in DCC traffic, the DCC would like to be able to spread traffic out as much as possible. One way of doing this is to use Scheduled Service Requests, as opposed to ad-hoc, wherever possible. This allows DCC Users to send the SRs to the Devices at times of lower traffic, so long as the messages get to the Devices before the specified date.

The Smart Energy Code (SEC) states that all SMETS1 Future Dated SRs are DCC Future Dated. This means the SR is held at the Data Services Provider (DSP) until the date stated within the SR has been reached, then the SR will be sent to the Device. Therefore, even if a SMETS1 Device were to have future dating capability, the DCC would be unable to make use of it.

The DCC would therefore like to address this to allow SRs to be sent to the SMETS1 Devices in advance of the specified date where possible.

This solution will be applied to SMETS1 Devices only.

2.2 Requirement 1: DCC Users must be able to send Future Dated Service Request (SR) to any Smart Metering Equipment Technical Specifications (SMETS)1 Device.

The objective of this requirement is to enable a DCC User to be able to send Future Dated SRs to any SMETS1 Device which can store a Future Dated SR within the Device. This requirement will eliminate the need for the DCC to hold SMETS1 Future Dated SRs at the DSP, if the SMETS1 Device can store the SR.

List of SRs which are in scope of the solution are as follows:

Service Requests		
SRV Ref	SRV Name	Device Type
1.1.1	Update Import Tariff (Primary Element)	ESME / GSME
1.2.1	Update Price (Primary Element)	ESME / GSME
1.6	Update Payment Mode	ESME / GSME
2.1	Update Prepay Configuration	ESME / GSME
6.4.1	Update Device Configuration (Load Limiting General Settings)	ESME
11.3	Activate Firmware	ESME / GSME / HCALCS

List of SMETS1 Devices in the Central Products List (CPL) which will support Future Dated SRs, is in the embedded file below:



SMETS1 Devices on
CPL v2.0.xlsx

2.3 Requirement 2: DCC User systems will not require changes to support Device Future Dated SRs.

To ensure that the proposed change has no impact on DCC User systems when sending any Future Dated Service Requests.

The objective of this requirement is to ensure that behaviour should remain as is current practice for Future Dated SMETS1 SRs, including any Alerts and response messages. The DCC User would not need to be aware if the Future Dated SR was sent to the Device or held at the DSP where a Device doesn't support it. This should follow existing SMETS1 approach.

2.4 Requirement 3: DCC User processes to remain consistent for all different SMETS1 Device Models.

To ensure that the proposed change has no impact on DCC User processes when sending any Future Dated Service Requests.

The objective of this requirement is to ensure that behaviour should remain as is current practice for Future Dated SMETS1 SRs, including any Alerts and response messages. The DCC User would not need to be aware if the Future Dated SR was sent to the Device or held at the DSP where a Device doesn't support it. This should follow existing SMETS1 approach.

2.5 Requirement 4: Reporting to monitor Future Dated SRs sent to and stored on SMETS1 Devices.

The Proposed Solution requires the DCC to either develop a reporting mechanism which will allow SEC Parties and the DCC to monitor the number of Future Dated SRs sent to SMETS1 Devices. This should include instances where the SMETS1 Device successfully received the Future Dated SRs and capture where the SMETS1 Device cannot store the SR.

There should be consideration of any wider industry reporting which may need to incorporate this SMETS1 Future Dated SRs data.

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
CPL	Central Products List
DCC	Data Communications Company
DSP	Data Services Provider
HCALCS	HAN Connected Auxiliary Load Control Switch
SEC	Smart Energy Code
SMETS	Smart Metering Equipment Technical Specifications
SR	Service Request