ELEXON

MDD CHANGE REQUESTS FOR VERSION 306

Supplier Volume Allocation Group (SVG)

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Owner/author	**Freya Gardner**	Purpose of paper	**Decision**
Classification	**Public**	Document version	**V1.0**

Summary **This paper invites the SVG to approve eight General Change Requests, and note 16 Fast Track Change Requests, for implementation in Version 306 of Market Domain Data (MDD) with a go-live date of 20 January 2021.**

1. Introduction

1.1 Updates to Market Domain Data (MDD) are made through monthly releases. Elexon progresses MDD changes in accordance with BSC Procedure (BSCP) 509 'Changes to Market Domain Data'.

General Change Request process

1.2 BSCP509 requires that General MDD Change Requests undergo validation by Elexon, and impact assessment by the Supplier Volume Allocation Agent (SVAA) and Market Participants, before being presented to the SVG for decision. Unmetered Supplies (UMS) Charge Codes are initially reviewed by the UMS User Group (UMSUG) in accordance with BSCP520 'Unmetered Supplies', and also go out for Market Participant impact assessment before being presented to the SVG. We include all comments received from the impact assessment in this paper to assist the decision making of the SVG.

Fast Track Change Request process

1.3 BSCP509 contains the Fast Track process for housekeeping changes and new participant registrations, which require Elexon validation and SVAA impact assessment. However, BSCP509 does not require Fast Track changes to be issued for Market Participant impact assessment or to be approved by the SVG. This means there is a separate deadline which is later than that for General Change Requests. Therefore, Fast Track Change Requests are presented to the SVG for information only.

1.4 New Party Agents and existing Licensed Distribution System Operators (LDSOs) registering in a GSP Group must have their Qualification approved by the Performance Assurance Board (PAB) before registering in MDD. However, they can submit Fast Track Change Requests before the PAB meeting for the next MDD Version to go live after the PAB has made its decision. Should the PAB not approve the Qualification application, Elexon will refuse the MDD Change Request. New Suppliers and new LDSOs do not require PAB approval of their Qualification before registering in MDD, and new Suppliers need not have obtained their Supply Licence.

2. Changes for MDD Version 306

2.1 This paper includes eight General MDD changes and 16 Fast Track MDD changes to be incorporated into MDD Version 306 with a go-live date of 20 January 2021.

General Change Requests

2.2 The table below provides an overview of this month's General Change Requests.

CR no.	MPID	Role Code	Details of Change Request	MP IA response
M3706	HYDE	R	Creation of new SSCs, MTCs, TPRs and NHH Combinations for the implementation of DCP326 *Effective From Date: 20/01/2021* **Supporting information provided in Section 4 below**	Y
M3707	MANW	R	Change of LLFC Description for existing LLFCs and Creation of new LLFCs and HH Combinations *Effective From Date: 20/01/2021 or 01/04/2021*	N
M3708	SPOW	R	Creation of new LLFCs and HH Combinations *Effective From Date: 01/04/2021 - These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*	N
M3709	UDNL	R	Creation of new LLFCs and NHH Combinations *Effective From Date: 20/01/2021*	Y
M3710	IPNL	R	Creation of new LLFCs and NHH and HH Combinations *Effective From Date: 20/01/2021*	Y
M3711	PENL	R	Creation of new LLFCs and HH Combinations *Effective From Date: 20/01/2021*	N
M3712	REGE	X	Creation of new MTC for Distributors and NHH Combinations *Effective From Date: 20/01/2021*	N
M3713	Elexon	-	Inclusion of Charge Codes and Switch Regimes *Effective From Date: 20/01/2021*	N

Role Code: R - Distributor X - Supplier

Market Participant Impact Assessment (MP IA) response:

N - No Market Participant comments received during the Market Participant Impact Assessment

Y - Market Participant comments received during the Market Participant Impact Assessment

MP IA responses

CR no.	MPID	MP IA response	Action taken by applicant	MPIA Comment Closed?
M3706	HYDE	*"In its current form we do not feel that this change is practical or sufficient, our main issues being:* ***1 –*** *Many of the new SSCs defined have same TPRs, in particular for two rate SSCs there are 42 new SSCs that use TPRs 00205 and 00537. It looks from SSC descriptions that these are being created to maintain geographic information. We feel this can be done better by using LLFCs to define geographic information and reduce by 41 number of new SSCs with this combination of TPRs. There are also a few single rate SSCs that have used the same TPR and we would also suggest these be likewise reduced. As a Supplier we would need to configure all these values to ensure Smart meters can be set up. To reduce that work and minimize errors it would be better to just configure one of these SSCs meaning use of SSC to maintain geographic information would be lost. We understood that this was needed with RTS meters at market opening but cannot support this being used now for smart meter configuration. Our view is that LLFCs or other means should be used to define geographic information and thereby minimize SSCs being set up that have same TPRs.* ***2 –*** *Currently all SSCs are being linked to MTC 511 which is inaccurate. MTC 511 for this party is*	**1 -** The applicant has reviewed the SSCs that use TPRs 205 and 537. There were mainly two types of SSCs in this category, one is for a general use two rate only (37 of them to start with), one is with a switched-load (5 of them in total). They have taken on the view that for general two-rate use, the geographical information is not required because there is no switched load. As a result they have reduced the requirement of SSCs for this purpose to only 1 (removed 36 of the others). However	MDD forms revised and sent out for additional Market Participant Impact Assessment. *The Market Participant who raised issues with the original submission has not reviewed the revised forms but the applicant has confirmed that their revised forms resolve all the comments

		defined as requiring two TPRs so all combinations with a new SSC that is defined with a single TPR are invalid. This data needs to be updated to ensure correct MTCs are used with each SSC. This could be with existing MTCs or new ones defined to map to these new SSCs and setup solely for use on Smart meters, which these SSCs support. ***3 –*** *We would note for RTS data in MDD currently a number of RTS SSCs are defined with combinations that include a non-related MTC. These have not been replicated within this change. We would ask that this be provided in a future MDD change unless Distributor can confirm that none of these should have non-related MTCs. If this is true then we would query if a data cleanse piece of work is required on current RTS MPANs in North Scotland to resolve these issues.* ***4 –*** *Some of the current RTS SSCs are defined as working in local time whereas all new SSCs are defined as GMT. None of these have any changes in pattern related to clock change dates, although we do realize that any such defined SSC would only be fully accurate for one year. We would like to understand process for any movement on current customers with a RTS SSC operating in local time. Would we need to contact Distributor to agree change to new SSC working in local time during any Load Managed Area timings as we feel would be required under DCUSA? This does make processes for such customers more difficult to explain and manage.* ***5 –*** *There is one new TPR, 00545, that seems to have four switch timings however start time of subsequent period always is aligned to end time of previous period. In totality, this is defining a 24-hour a day operating register, which already exists in this GSP Group, so this seems to be redundant data.* ***6 –*** *There is a data item Effective from Settlement Date{VSCPC} on a number of entity forms. On entity form 40 this is set to 20/01/2021 which we think is correct as this relates to a brand new SSC but on some other forms it is set to 01/04/1996, i.e. form 11. We are not sure if this has any impact or not but have raised for this to be considered.* ***7 –*** *We would also note that other Distributors operating in this GSP Group who have any MPANs which are RTS metered would need to also support new SSCs. This is another reason why we feel that this duplication of switching mentioned in point 1 is impractical but feel these changes need to be led by relevant Distributors in discussion with SSE to determine how to map current RTS SSCs to new SSCs, although Suppliers also require that data."*	for the ones with a switched-load, they see that the geographic information is useful, and given there are only 5 of them in total we hope that Supplier would be ok with. They have considered the LLFC solution as suggested but find that impractical. **2 & 3 -** The applicant have included in the latest forms MTC 507, 508 and 509 to replace MTC 511, and updated all the forms accordingly **4 -** The applicant have chosen the following approach: When the original RTS was defined as seasonal, they maintained the seasonal variation along with the clock change. When the original RTS was defined as all year round, they adopt to GMT definition only without adjust to clock change. **5 -** The applicant agreed this is redundant data and have removed. **6 -** The applicant have updated the VSCPC to 20/01/2021 in the latest forms **7 -** The update related to Point 1 above should make this process more manageable.	
M3709	UDNL	"*SSC 0244 is being defined to operate in all GSP Groups for this Distributor, but it cannot currently*	Elexon agrees with this comment and has	

		do so. We believe no data exists to allow this SSC to be used in GSP Groups _D, _J and _N so currently that data specified in this change is redundant and cannot be used as it can never be settled. There are several additional entity forms that will be required to enable data in MDD for these three GSP Groups in order for these combinations to be used."	asked the applicant to remove the invalid combinations	
M3710	IPNL	*"There are several combinations for profile classes 5 to 8 import metering. It was mandated some time ago that all of these should be migrated to HH metering. We feel that no new import data for profile classes 5 to 8 should now be entered in MDD as this does not support the requirement for these to be settled using HH metering."*	Applicant responded with the below; *"The purpose of the this MDD CR is to introduce new LLFC's to represent a connections market segment in which IPNL previously did not have any connections. We have sought to introduce these LLFCs and the associated data combinations in such a way as to replicate the existing combinations which are available for suppliers to register customers with. This additional LLFCs allow us to denote where IPNL's network connects to the DNO's network at a voltage tier which we previously didn't have any connections (namely EHV) and therefore all other data should be replicated as is available for existing end user connections.* *Although we are aware of discussions in industry recently to minimise and rationalise some of the valid combinations within MDD we do not believe it is appropriate for a distributor, at this point, to restrict the data that is available to assign to a*	

			customer where such a restriction is only applicable on the basis of IPNL's connection to the DNO's network. Something that the end user's data should be agnostic to"	

Fast Track Change Requests

2.3 The table below provides an overview of this month's Fast Track Change Requests.

CR no.	MPID	Role Code	Details of Change Requests
M3714	CMSL	M	Change of Name and Address for Market Participant Role Code 'M' *Effective From Date: 20/01/2021*
M3715	DESL	X	Change of Name and Address for Market Participant Role Code 'X' *Effective From Date: 20/01/2021*
M3716	FLEX	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*
M3717	LOND	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*
M3718	MARY	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3719	MASS	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3720	MICH	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3721	MINN	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3722	OHIO	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3723	POWQ	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*
M3724	SMAR	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*
M3725	STAT (1)	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*
M3726	STAT (2)	X	Registration of Additional Supplier BM Unit *Effective From Date: 27/01/2021* *-These changes will be implemented in MDD Version 306 with a Go-Live Date of 20/01/2021*

M3727	TLWD	X	Change of Name and Address for Market Participant Role Code 'X' *Effective From Date: 20/01/2021*
M3728	UTAH	X	Creation of new MPID, Market Participant Role Code 'X' and Base BM Units *Effective From Date: 20/01/2021*
M3729	YNRG	X	Change of Name and Address for Market Participant Role Code 'X' *Effective From Date: 20/01/2021*

Role Code: X - Supplier M – Meter Operator

3. Line Loss Factor validations

MDD Version 306

3.1 There are five Change Requests for MDD 306, which request the opening of new LLFCs to be effective from 20 January 2021 or 1 April 2021. The following table provides further details.

CR no.	LDSO	No. of new LLFCs	MS Specific LLF Class Indicator(s)
M3707	MANW	14	A, B, D
M3708	SPOW	29	A, B, D
M3709	UDNL	42	A
M3710	IPNL	34	A, C
M3711	PENL	5	C

A - General LLFC for Import Active Energy B - MS Specific LLFC for Import Active Energy C - General LLFC for Import Active Energy D - MS Specific LLFC for Export Active Energy

3.2 Elexon has validated the D0265 or request template files to ensure that the structure of the files and the submitted LLF values comply with the audit scope of Section 3.5 of BSCP128 'Production, Submission, Audit and Approval of Line Loss Factors'. The submitted files have passed validation.

4. Supporting information for Change Request DCP326

4.1 MDD submission (M3706) covering note from SSE;

"On 5 November we submitted an MDD application to maintain load management via SSCs and TPRs using two-MPANs, this aligned with the second stage of our implementation of DCUSA Change Proposal (DCP) 326 – defining SSC and TPRs for use by Smart Meters in LMAs equivalent to former RTS operation. This approach sought to minimise hardware requirements and avoid the need for Suppliers to request additional MPANs. However, following our engagement with Suppliers, it was evident that the solution proposed cannot maintain the level of diversity in the load managed area ***and*** *satisfy MDD system requirements. This is because MDD system requirements presume alignment between general peak/off-peak and switched loads, whereas the LMA achieves diversity by deliberately staggering the space heating and water heating switched loads at different times to the general peak/off-peak and each other.*

In this MDD application, we have addressed system requirements by using up to three-MPANs for each of the SSC/TPR combination. To illustrate, the arrangement allows one SSC/MPAN for the general peak/off-peak, one SSC/MPAN for the space-heating switched load and one SSC/MPAN for the water heating switched load. Where switching schedules are identical between space heating, water heating and/or general peak/off-peak and depending on metering system configuration, other combinations may also possible and we would be happy to enable these too as Suppliers request.

Summary of design approach

The following requirements/design choices have been developed to support the creation of SSC/TPR combinations as per DCP 326.

1. *New SSCs and TPRs will replicate existing, RTS enabled, arrangements as closely as possible*
   a. *Existing RTS Group Code definitions will be replicated using TPRs*
   b. *Dynamic and semi-static TPRs will be converted to static TPRs by including some longer 'on' times to accommodate the seasonal adjustments that were previously available (this is needed as Smart Meters cannot dynamically switch load based on RTS signal)*

c. *Where TPRs for non-switched loads exist, these will be maintained. Likewise no further TPRs for non-switched loads will be created if they had not previously been defined*
d. *Where there is a difference between existing MDD entries and operational/live RTS switching patterns, operational/live RTS signals have been used to maintain continuity of the existing service*

2. *New SSCs and TPRs will clearly set-out the time patterns for each group code in the load managed area*
   a. *Where the LMA group code has separate switching patterns for space and water heating, two separate TPRs will be created*
   b. *Where the LMA group code combines the switching patterns for space and water heating, a single combined switched-load TPR will be created*
   c. *Where the LMA group code does not specify a switching pattern for water heating, no water heating TPR will be defined*
   d. *Switched load TPRs for space heating and water heating will be defined separately from non-switched loads to ensure clear definition*

3. *New SSCs and TPRs will maintain general MDD requirements*
   a. *1 SSC per MPAN*
   b. *1 switched-load TPR per SSC*
   c. *1 off-peak TPR per SSC*

This leads to the following general three-MPAN solution:

MPAN 1	*SSC 1*	*TPR 1*	*A: General load – "on peak"*
		TPR 2	*B: General load – "off peak"*
MPAN 2	*SSC 2*	*TPR 3*	*D: Switched load space heating*
MPAN 3	*SSC 3*	*TPR 4*	*C: Switched load water heating*

Where space and water heating operate to the same time pattern, this becomes

MPAN 1	*SSC 1*	*TPR 1*	*A: General load – "on peak"*
		TPR 2	*B: General load – "off peak"*
MPAN 2	*SSC 2*	*TPR 3*	*D & C: Switched load space heating and water heating*

Where space, water and off-peak operate to the same time pattern this becomes

MPAN 1	*SSC 1*	*TPR 1*	*A: General load – "on peak"*
		TPR 2	*B, D & C: General load – "off peak" and switched load space heating and water heating*

Where only space heating is defined, this becomes:

MPAN 1	*SSC 1*	*TPR 1*	*A: General load – "on peak"*
		TPR 2	*B: General load – "off peak"*
MPAN 2	*SSC 2*	*TPR 3*	*D & C: Switched load space heating*

The three-MPAN approach informs each schedule clearly under separate TPRs and SSCs, to maintain the required level of switched load diversity using items published via MDD as instructed per DCP 326."

5. Recommendations

5.1 We invite you to:

a) **APPROVE** eight General Change Requests for implementation in MDD 306 with a go-live date of 20 January 2021;

b) **NOTE** 16 Fast Track Change Requests for implementation in MDD 306 with a go-live date of 20 January 2021; and

c) **NOTE** the Market Participant Impact Assessment comments for CR M3706, M3709 and M3710.

Appendices

Appendix 1 – Fast Track Submissions Criteria

Fast Track Change Requests
Green Deal Market Participant IDs
New Entrants (into MDD)
LLFC Description Changes
Additional BM Unit registration of existing Suppliers
Base Calendar & Scottish Day Types Annual Update
SVAA Annual Clear down
Market Participant Name Change
Market Participant Address Change

Attachments

Attachment A – UMS Generic LED Charge Codes

Attachment B – UMS Standard Charge Codes

Attachment C – UMS Switch Regimes

Attachment D – UMS VPSRs

For more information, please contact:

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