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## MDD CHANGE REQUESTS FOR VERSION 314 & 315

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### Supplier Volume Allocation Group (SVG)

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Owner/author **Freya Gardner**

Purpose of paper **Decision**

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#### Summary

**This paper invites the SVG to approve seven General Change Requests, and note 10 Fast Track Change Requests, for implementation in Version 314 of Market Domain Data (MDD) with a go-live date of 18 August 2021. It also invites the SVG to approve seven General Change Requests to support Ofgem's Targeted Charging Review (TCR), for implementation in Version 315 of MDD with a go-live date of 22 September 2021.**

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## 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. BAU Changes for MDD Version 314

- 2.1 This paper includes seven General MDD changes and 10 Fast Track MDD changes to be incorporated into MDD Version 314 with a go-live date of 18 August 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
M3840	ETCL (1)	R	End-dating of NHH Combinations <i>Effective To Date: 18/08/2021</i>	N
M3841	ETCL (2)	R	Creation of NHH Combinations <i>Effective From Date: 18/08/2021</i>	N
M3842	GGEN	R	Creation of new LLFCs and HH Combinations <i>Effective From Date: 18/08/2021</i>	N
M3843	IPNL	R	End-dating of NHH Combinations <i>Effective To Date: 18/08/2021</i>	N
M3844	NEEB	R	Change of LLFC descriptions and Creation of new LLFCs and HH Combinations <i>Effective From Date: 18/08/2021</i>	N
M3845	UKPD	R	Creation of new LLFCs and NHH and HH Combinations <i>Effective From Date: 18/08/2021</i>	N
M3846	Elexon	-	Inclusion of Charge Codes and Switch Regimes <i>Effective From Date: 18/08/2021</i>	N

Role Code: R - Distributor

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

## 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
M3854	AZAC	X	Change of Name for Market Participant Role Code 'X' <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>
M3855	CMRO	X	Registration of Additional Supplier BM Unit <i>Effective From Date: 18/08/2021</i>
M3856	DMSL	M	End-dating of Market Participant Role Code 'M' <i>Effective To Date: 18/08/2021</i>
M3857	ECOT	X	Registration of Additional Supplier BM Unit <i>Effective From Date: 01/09/2021</i> <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>
M3858	Elexon	-	End-dating of Additional BM Units for CFD Assets <i>Effective To Date: 18/08/2021</i>
M3859	SMAR	X	Registration of Additional Supplier BM Unit <i>Effective From Date: 08/09/2021</i> <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>
M3860	VIPR	X	Change of Name and Address for Market Participant Role Code 'X' <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>
M3861	YELG	R	Change of Line Loss Factor Class Descriptions <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>
M3862	SWAE	R	Change of Line Loss Factor Class Descriptions <i>-This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021</i>

M3863	Elexon	-	Creation of Profile Administrator's 'Technical Product Deliverables' (TPDs) for use from September 2021 -This change will be implemented in MDD Version 314 with a Go-Live Date of 18/08/2021
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Role Code: X - Supplier R - Distributor M - Meter Operator

### 3. BAU Line Loss Factor validations

3.1 There are three Change Requests for MDD 314 which request the opening of new LLFCs to be effective from 18 August 2021. The following table provides further details.

CR no.	LDSO	No. of new LLFCs	MS Specific LLF Class Indicator(s)
M3842	GGEN	1	A
M3844	NEEB	5	B
M3845	UKPD	70	C

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

3.2 Elexon has validated the Request Templates or D0265 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. Profiling Technical Product Deliverables (TPDs)

4.1 Elexon and the Profiling Expert Group (PEG) have reviewed the profiles to be used in Settlement effective from 6 September 2021 for the remainder of the current 2021/22 BSC Year. The new TPDs have passed all tests on content and format and Appendix 2 provides the complete checklist used.

4.2 The new TPDs are made up of:

- Regression data for the Autumn and Winter BSC Seasons, based on a pooled set of the latest three years' data (2018/19, 2019/20 and 2020/21); and
- Recalculated Group Average Annual Consumption (GAAC) data for use in the Autumn and Winter Seasons of the current BSC Year.

4.3 Spring, Summer and High Summer data is made up of a pooled set of the latest three years of data (2018, 2019 and 2020) which have not been updated in this set of TPDs, as normal.

4.4 At its meeting on 20 July 2021, the PEG agreed that the 'pooled' TPDs are the most appropriate set of profiles to use. It unanimously recommends that the SVG approves these for use in Settlement for the remainder of the current BSC Year.

### 5. TCR Testing outcome

5.1 We informed the SVG (Paper 242/07) the outcome of testing for TCR changes. We have completed all enhancements and retested the Central systems.

5.2 Performance timings were compared between 3 different test runs - before any code change, after the code change with the same volume of data and then with additional volume. Functional regression testing was done where there were code changes. Data values were compared between before the code change and after.

5.3 Cycle 1 testing included the expected volume of additional data (37,378 LLFCs & 461,671 data combinations). This demonstrated marked improvement in all areas, giving confidence that existing processing timescales will not be negatively impacted.

5.4 These improvements have been confirmed by the durations observed in production immediately after the D0030 code deployment. Before the deployment of the D0030 changes to production on 16th June 2021 overall VAR duration times were about 15 hours. The daily overall VAR duration times recorded immediately after the deployment were around the 5 hour mark and have remained at similar levels since then.

5.5 Cycle 2 testing included further data (57,550 LLFCs & 708,046 data combinations) to see how the system will cope in the worst-case scenario. The overall VAR duration increased as expected but was still

comparable with the current operational timescales. However, we have identified a few issues with Cycle 2 data volumes. These will need further investigation if the data starts increasing beyond Cycle 1 significantly.

- 5.6 Overall, the test results give us confidence that the Central Systems will be able to process additional data volumes with some additional leverage if required.
- 5.7 For MDD Version 315, the SVG are being invited to approve the first 'batch' of TCR Changes, which would add 4,657 TCR LLFCs, and 32,350 combinations, which is well within the volume that has been tested.

## 6. TCR Changes for MDD Version 315

- 6.1 Change Requests to support [Ofgem's Targeted Charging Review \(TCR\) Significant Code Review \(SCR\)](#) are being submitted for approval a month in advance, to facilitate the extra time required to process the large volume of TCR changes.
- 6.2 This paper includes seven General TCR MDD changes to be incorporated into MDD Version 315 with a go-live date of 22 September 2021. The table below provides an overview of the Change Requests.

CR no.	MPID	Role Code	Details of Change Request	MP IA response
M3847	FORB	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3848	INDI	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3849	PENL	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3850	UKPD	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3851	VATT	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3852	UDNL	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N
M3853	HARL	R	Creation of new LLFCs and NHH and HH Combinations to support the TCR <i>Effective From Date: 22/09/2021 (These changes will be implemented in MDD Version 315)</i>	N

Role Code: R - Distributor

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

## 7. TCR Line Loss Factor validations

- 7.1 There are seven TCR Change Requests for MDD 315 which request the opening of new LLFCs to be effective from 22 September 2021. The following table provides further details.

CR no.	LDSO	No. of new LLFCs	MS Specific LLF Class Indicator(s)
M3847	FORB	840	A
M3848	INDI	840	A, C

M3849	PENL	1664	A, C
M3850	UKPD	403	A
M3851	VATT	336	A
M3852	UDNL	336	A
M3853	HARL	238	A

A - General LLFC for Import Active Energy C - General LLFC for Import Active Energy

7.2 Elexon has validated the Request Templates 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.

## 8. Recommendations

8.1 We invite you to:

- a) **APPROVE** seven General BAU Change Requests for implementation in MDD 314 with a go-live date of 18 August 2021;
- b) **NOTE** 10 Fast Track Change Requests for implementation in MDD 314 with a go-live date of 18 August 2021;
- c) **APPROVE** the TPDs for use in Settlement for the remainder of the current BSC Year; and
- d) **APPROVE** seven General TCR Change Requests for implementation in MDD 315 with a go-live date of 22 September 2021.

## 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

Appendix 2 – Profiling TPDs Checklist

### PrA TPDs checklist (Pooled Regression)

**Reporting period:** Year 25\_2 (Autumn - Winter 2021/22)

**Period of Operational Use:** Autumn - Winter 2021/22

Check	Results	Comments
<b>Date of receipt</b>	Thursday 24 June 2021	Within timeframes according to TPDs timetable
<b>Data completeness (FF)</b>	<p>We received all expected files.</p> <p>Expected files:</p> <ul style="list-style-type: none"> <li>• x6 .csv Regression data (PC 1, 2b, 2s, 3, 4b, 4s)</li> <li>• x6 .csv GAACs</li> <li>• x8 .csv Profile coefficients (PC 1 to 4s)</li> </ul>	

	<ul style="list-style-type: none"> <li>• x48 .csv Algorithmic stretched coefficients</li> </ul>																																														
<b>Data format (FF)</b>	All files in correct format. No issues.																																														
<b>Data completeness (NFF)</b>	<p>We received all expected files as shown below.</p> <p><b>Regressions</b></p> <table border="1"> <thead> <tr> <th></th> <th>Actual</th> <th>Expected</th> </tr> </thead> <tbody> <tr> <td>Records</td> <td>597552</td> <td>597552</td> </tr> <tr> <td>GSP</td> <td>1400</td> <td>1400</td> </tr> <tr> <td>PFL</td> <td>100</td> <td>100</td> </tr> <tr> <td>RES</td> <td>2500</td> <td>2500</td> </tr> <tr> <td>COF</td> <td>527600</td> <td>527600</td> </tr> <tr> <td>PER</td> <td>65950</td> <td>65950</td> </tr> <tr> <td>ZHD</td> <td>1</td> <td>1</td> </tr> <tr> <td>ZPT</td> <td>1</td> <td>1</td> </tr> </tbody> </table> <p><b>Profile Coefficients</b></p> <table border="1"> <thead> <tr> <th></th> <th>Actual</th> <th>Expected</th> </tr> </thead> <tbody> <tr> <td>ZHD</td> <td>1</td> <td>1</td> </tr> <tr> <td>PFC</td> <td>8</td> <td>8</td> </tr> <tr> <td>DPP</td> <td>140160</td> <td>140160</td> </tr> <tr> <td>ZPT</td> <td>1</td> <td>1</td> </tr> <tr> <td>Total</td> <td>140170</td> <td>140170</td> </tr> </tbody> </table>		Actual	Expected	Records	597552	597552	GSP	1400	1400	PFL	100	100	RES	2500	2500	COF	527600	527600	PER	65950	65950	ZHD	1	1	ZPT	1	1		Actual	Expected	ZHD	1	1	PFC	8	8	DPP	140160	140160	ZPT	1	1	Total	140170	140170	
	Actual	Expected																																													
Records	597552	597552																																													
GSP	1400	1400																																													
PFL	100	100																																													
RES	2500	2500																																													
COF	527600	527600																																													
PER	65950	65950																																													
ZHD	1	1																																													
ZPT	1	1																																													
	Actual	Expected																																													
ZHD	1	1																																													
PFC	8	8																																													
DPP	140160	140160																																													
ZPT	1	1																																													
Total	140170	140170																																													
<b>Data format (NFF)</b>	All files in correct format. No issues.																																														
<b>SVAA Test Loading</b>	<p>SVAA test loading results showed no issue for all GSP Groups.</p> <p>There were 'warnings' for the GSP Groups _N and _P. However this was expected since the Scottish GSP Groups were not originally included, as they had their own profiles before BETTA.</p>																																														
<b>Friendly (FF) Vs Non-friendly (NFF) data comparisons</b>	<p>Basic Regression Coefficients are the same in both files.</p> <p>14 Settlement Period stretch for Switched Load Profile Classes 2 and 4 also match.</p>																																														
<b>Eval (new reg) vs. GAD</b>	<p>Regression data evaluated (Y25_2) for 2021/22 Autumn-Winter (September 2021 to March 2022) and the outturn NET.</p> <p>This evaluated demand is compared with GAD.</p> <p>Comparisons indicate regressions look okay.</p>																																														
<b>Y25_2 Vs Y25_1 evaluated regressions at 10-year average NETs for 2020/21</b>	No overall issues identified.																																														

<b>Data Analyst analysis for Y25_2 GADs</b>	<b>Profile Class</b>	<b>Avg. Std Error/Av Demand</b>	<b>Average Demand</b>	<b>Average Std Error</b>	Table presented by Data Analyst at the last PEG meeting.
	<b>1</b>	5.52%	0.529	0.0292	
	<b>2</b>	7.85%	0.745	0.0585	
	<b>3</b>	4.49%	1.434	0.0643	
	<b>4</b>	7.83%	2.343	0.1836	
<b>Evaluated algorithmic stretched coefficients all sum to same value per stretch</b>	Differences in all Profile Class 2 stretches are inside tolerable limits.				
	Differences in all Profile Class 4 stretches are inside tolerable limits.				
<b>Group Average Annual Consumptions (GAACs)</b>	The percentage ratios between the average GAACs and the average annual consumption per PC are 100%				
<b>Negative evaluation counts at long run average NETs +/- 10°F for an evaluated matrix of 365 x 48 values. (17,520 half-hourly evaluations)</b>	<b>Profile Class</b>	<b>HH Count + 10°F</b>	<b>HH Count - 10°F</b>		
	PC1	0	0		
	PC2b	0	0		
	PC2s	17	0		
	PC3	0	0		
	PC4b	0	0		
	PC4s	0	0		

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## Attachments

Attachment A – UMS Generic LED Charge Codes

Attachment B – UMS Switch Regimes

Attachment C – UMS Variable Power Switch Regimes

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## For more information, please contact:

Freya Gardner, Analyst

[freya.gardner@elexon.co.uk](mailto:freya.gardner@elexon.co.uk)

020 7380 4107