

**Phase**

Initial Written Assessment

Definition Procedure

Assessment Procedure

Report Phase

Implementation

## P339 'Introduction of new Consumption Component Classes for Measurement Classes E-G'

P339 seeks to introduce new Consumption Component Classes (CCCs) for Measurement Classes "E", "F" and "G". These new CCCs will enable aggregated consumption volumes for both Active Import (AI) and Active Export (AE) to be identified separately.

This Assessment Procedure Consultation for P339 closes:

**5pm on Wednesday 12 October 2016**

The Workgroup may not be able to consider late responses.



The Workgroup initially recommends **approval** of P339 as a Self-Governance Modification Proposal.

This Modification is expected to impact:

- SVAA
- ELEXON
- Suppliers
- Supplier Agents
- LDSOs

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## About This Document

The purpose of this P339 Assessment Procedure Consultation is to invite BSC Parties and other interested parties to provide their views on the merits of P339. The P339 Workgroup will then discuss the consultation responses, before making a recommendation to the BSC Panel at its meeting on 10 November 2016 on whether or not to approve P339.

There are four parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, benefits/drawbacks and proposed implementation approach. It also summarises the Workgroup's key views on the areas set by the Panel in its Terms of Reference, and contains details of the Workgroup's membership and full Terms of Reference.
- Attachment A contains the draft redlined changes to the BSC for P339.
- Attachment B contains the specific questions on which the Workgroup seeks your views. Please use this form to provide your response to these questions, and to record any further views or comments you wish the Workgroup to consider.
- Attachment C contains details of the proposed new CCCs.

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### Why Change?

Measurement Classes “E”, “F” and “G” share six Consumption Component Classes (CCCs) for Active Import (AI) and do not currently have any CCCs for Active Export (AE). This means it is not possible to separate AI and AE for these Measurement Classes. It is also not possible to include aggregate Export volumes in Settlement or provide such data for Distribution Use of System (DUoS) billing.

### Solution

P339 seeks to introduce new CCCs for Measurement Classes “E”, “F” and “G” to allow aggregated consumption volumes for both AI and AE to be identified separately.

### Impacts & Costs

The central implementation costs to deliver P339 are approximately **£25k**.

Some Half Hourly Data Collectors (HHDCs)/ Half Hourly Data Aggregators (HHDA)s will need to change their internal systems to handle the new data. There will also be changes required to two Data Transfer Catalogue (DTC) flows as detailed in Section 4.

### Implementation

The Workgroup recommends an Implementation Date for P339 of **1 April 2017**.

### Recommendation

The initial **majority** view of the Workgroup is that P339 does better facilitate Applicable BSC Objectives (c) and (d) when compared to the current baseline and therefore initially recommends that P339 is **approved**.

### Measurement Classes “F” and “G”

Measurement Classes “F” and “G” were introduced by Approved Modification [P300 ‘Introduction of new Measurement Classes to support Half Hourly DCUSA Tariff Changes \(DCP179\)’](#). The introduction of these Measurement Classes enabled network charges to be applied on an aggregated basis for smaller customers rather than on a site-specific basis.

### Consumption Component Classes

P300<sup>1</sup> originally intended to introduce 10 new CCCs for both Measurement Classes “F” and “G” (six for Import and four for Export).

The P300 Workgroup did not include the CCCs for Export as this would have increased the size of certain data flows. Instead, P300 utilised the existing CCCs applicable to Measurement Class “E”. As a result, AI and AE in Measurement Classes “E”, “F” and “G” cannot be separated in Settlement. This also has a consequence, in that aggregated Export cannot be settled under these Measurement Classes.

Currently there are three Measurement Classes for Half Hourly (HH) Metering Systems with less than 100kW Maximum Demand:

- Measurement Class “E” – HH Metering Equipment at a below 100kW Premises with a current transformer (CT)
- Measurement Class “F” - HH Metering Equipment at a below 100kW Premises with a CT or whole current (WC), and at a Domestic Premises
- Measurement Class “G” - HH Metering Equipment at a below 100kW Premises with a WC and not at a Domestic Premises.

These Measurement Classes currently share six CCCs that are identified with a Consumption Level Indicator of “A” as defined in [Section X, Annex X-2](#) of the BSC:

- Consumption Level Indicator “A” - Metering Systems which are not 100kW Metering Systems (equivalent to Measurement Class “E”, “F” and “G”)

The six CCCs (“23”, “25”, “26”, “28”, “30” and “31”) all have a Measurement Quantity ID of AI (consumption/import) and there are none for AE (generation/export).

The full list of valid CCCs can be found in [BSC Section X Annex X-2, table X-8](#).

### Settlement Reform Advisory Group Recommendation

The Settlement Reform Advisory Group (SRAG) was established by the BSC Panel in July 2015 to investigate improvements to the Settlement process. The SRAG presented its [recommendations](#) to the BSC Panel in February 2016.

As part of its work the SRAG identified barriers to elective HH Settlement for small sites (Measurement Classes “F” and “G”). The Settlement arrangements were originally



#### Measurement Classes

The Measurement Class of a Metering System reflects how it is settled i.e. HH or NHH. There are currently seven Measurement Classes:

- A) NHH Metered
- B) NHH Unmetered
- C) HH Metered 100KW and above
- D) HH Unmetered
- E) HH Metering below 100kW premises with CT
- F) HH Metering below 100kW premises with CT or whole current, domestic
- G) HH Metering below 100kW with whole current, nondomestic



#### Consumption Component Classes

Consumption Component Class is a classification of HH Consumption which comprises of one element from each of the categories listed in BSC [Section X Annex X-2, Table X-8](#) (example: metered or unmetered; with or without line losses).

<sup>1</sup> Prior to P300, Rejected Modification Proposal [P280 ‘Introduction of new Measurement Classes’](#) sought to introduce new Measurement Classes, P280 also included new CCCs.

designed for large customers with complex Metering Systems. Therefore, the SRAG's focus had been on what is needed from a Settlement perspective for lower energy usage customers, recognising the different technology changes brought about by smart Meters.

One of the barriers identified by the SRAG arises from unmetered and unregistered Export from microgeneration sites (primarily solar sites registered in the Feed-in-Tariff (FiT) scheme). This unmetered and unregistered Export reduces the Grid Supply Point Group Correction Factor (GSPGCF) below "1" in Settlement Periods where photo-voltaic (PV) arrays are exporting. This in turn is having a significant impact on Suppliers' ability to forecast and purchase energy accurately.

The SRAG therefore recommended to the Panel that a Modification be raised to introduce new CCCs for Export in Measurement Classes "E", "F" and "G". The SRAG believe that the CCCs to be introduced will facilitate the aggregated HH Settlement of microgeneration sites, where Export is metered and registered for Settlement. This will in turn mitigate Export from impacting the GSPGCF.

## What is the issue?

The P300 Workgroup did not include the CCCs for Export as it was believed this would increase the size of certain data flows. However, one of the barriers to elective HH Settlement for small sites identified by the SRAG arises from unmetered and unregistered Export from microgeneration sites. Therefore, it was recommended that a Modification be raised to introduce new CCCs for Export in Measurement Classes "E", "F" and "G".



### Grid Supply Point Group Correction

Grid Supply Point Group Correction is the mechanism that adjusts Suppliers' Metered Volumes in each GSP Group in order to address the under or over accounting of energy. This is done by applying a correction factor to Suppliers' Supplier Volume Allocation (SVA) energy so that the aggregate energy allocated to Suppliers is equal to the GSP Group Take in each Settlement Period.

Further information can be found in the [GSP Group Correction Guidance note](#).

## Proposed solution

BSC Modification [P339 'Introduction of new Consumption Component Classes for Measurement Classes E-G'](#) was raised by OVO Energy on 4 May 2016.

P339 seeks to introduce new CCCs for Measurement Classes "E", "F" and "G" to allow aggregated consumption volumes for both AI and AE to be identified separately. The new CCCs will enable:

- the aggregation of HH Export volumes for Settlement and the billing for DUoS charges;
- the application of different Performance Levels to Measurement Classes "E", "F" and "G";
- the application of different GSPGCF Scaling Weights to Measurement Classes "E", "F" and "G"; and
- the ability to apply different BSC specified charges to smaller Customers.

P339 will also enable revision of the GSPGCF Scaling Weights for each of Measurement Classes "E", "F" and "G".

## Proposer's rationale

The Proposer contends that all of the above changes will remove significant barriers to elective HH Settlement.

The CCCs to be introduced under P339 will facilitate the aggregated HH Settlement of microgeneration sites, where Export is metered and registered for Settlement. This will in turn mitigate Export from impacting the GSPGCF. Introducing the new CCCs will further help enable elective HH Settlement for small sites by enabling Performance Levels to be set separately for each Measurement Class.

The new CCCs under P339 will introduce more flexibility to the BSC specified charging methodology<sup>2</sup> and allow charging for smaller HH Metering Systems. For example, Measurement Class "F" will be separate from the traditional HH charging (Measurement Class "C"). This will allow the removal of a barrier identified to elective HH Settlement which currently means HH Metering Systems are charged more than Non Half Hourly (NHH) Metering Systems. This charge difference will be approximately £2 more per Metering System per year once all Profile Class 5-8 NHH Metering Systems sites have switched to HH following the implementation of P272.

P339 will also enable revision of the GSPGCF Scaling Weights for each of Measurement Classes "E", "F" and "G". This will individually allow small HH sites to receive the GSPGCF benefits arising from low GSPGCFs that are currently received by NHH registered Metering Systems.



### DUoS charges

The DUoS charge covers the cost of receiving electricity from the national transmission system and feeding it directly into homes and businesses through the regional distribution networks. These networks are operated by LDSOs.



### Scaling Weights

The GSP Group Correction Factor calculation refers to a Scaling Weight for each Consumption Component Class (CCC), which defines how much GSP Group Correction should be applied to that CCC.

<sup>2</sup> Note that if the proposed solution [for P346 'Changes to the BSC Specified Charges to facilitate Elective HH settlement'](#) is implemented, it may mean that new CCCs would not be required for specified charging purposes.

## Legal text

Attachment A contains the proposed changes to BSC Section X Annex X-2 to deliver P339. The redlining defines the new CCCs and also includes the addition of 'Measurement Class Indicator'. The new values for the Measurement Class Indicator are also defined.

### Assessment Consultation Question

Do you agree with the Workgroup that the draft legal text in Attachment A delivers the intention of P339?

*Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

### Estimated central implementation costs of P339

The central implementation costs to deliver P339 are approximately **£25k** to develop and implement the required changes to the SVAA system.

There are no changes required to MDD as the new CCCs will be added under the usual process as set out in [BSCP509 'Changes to Market Domain Data'](#).

### Data Transfer Catalogue

Changes will be required to two DTC flows;

- [D0040 'Aggregated Half Hourly Data File'](#); and
- [D0298 'BM Unit Aggregated Half Hourly Data File'](#).

This is because the additional data groups used to populate the two data flows only reference Measurement Classes "F" and "G" and will therefore need to be extended to include the export equivalents. These changes will be progressed under a Master Registration Agreement (MRA) change.

### Indicative industry costs of P339

The responses from industry participants to the P339 Impact Assessment varied depending on the participant's role. HHDCs/HHDA typically indicated changes would be required to their internal systems. One HHDC/HHDA indicated one-off implementation costs would be equivalent to 15 man-days. They will also face on-going costs for training, data storage, reporting, assurance etc. Two other HHDA/HHDCs indicated large one-off costs. However one HHDA/HHDC indicated that they would incur no costs.

Two distributors responded to the Impact Assessment and both indicated minimal costs.

Two Suppliers indicated changes would be required to their internal systems, but another Supplier indicated low operational impact.

The Transmission Company indicated limited system changes but did stress the importance of P339 as an enabler to the changes to TNUoS charging that are being progressed under [CMP266 'Removal of Demand TNUoS charging as a barrier to future elective Half Hourly settlement'](#).

A number of respondents noted that P339 will have a limited impact as it builds on functionality that was previously developed for P300.

Further detail on the impacts of P339 can be found in the [collated responses to the P339 Impact Assessment](#).



## P339 impacts

Impact on BSC Parties and Party Agents	
Party/Party Agent	Impact
Distributors	P339 will not have a direct impact although it will allow billing of DUoS charges related to aggregate HH export.
HHDA	HHDAs will need to be able to produce the required flows with the new CCCs.
Supplier	Supplier systems will need to be capable of receiving the affecting data files and load them into internal systems

Impact on Transmission Company	
No impact.	

Impact on BSCCo	
Impact	
ELEXON will implement the required system and document changes to deliver P339. We will also raise the required DTC changes.	

Impact on BSC Systems and process	
BSC System/Process	Impact
SVAA	Changes required to deliver P339.

Impact on Code	
Code Section	Impact
Section X, Annex X-2	The list of CCCs will be updated to include the new CCC IDs. 'Measurement Class Indicator' will be added to match the corresponding Measurement Class for that CCC.

### Recommended Implementation Date

The Workgroup recommends an Implementation Date for P339 of **1 April 2017**.

### Workgroup's consideration of the Implementation Date

The Workgroup noted that the respondents to the Impact Assessment indicated a variety of lead times with several indicating around 6 months and one as long as 12 months. The main driver for a 1 April 2017 Implementation Date is to align with the start of the TNUoS charging year and the expected implementation of Connection and Use of System Code (CUSC) change [CMP266](#). CMP266 seeks to prevent double charging of TNUoS for a Meter electing to be HH settled. If P339 is implemented later than 1 April 2017 it will mean it is not possible to separate consumption from Meters in different Measurement Classes that migrate to HH Settlement between 1 April and the P339 Implementation Date. This would result in continued double charging of TNUoS, which is a barrier to elective HH Settlement.

It was noted that only Suppliers who wish to settle their customers HH would be affected and it would be their choice as to when they begin to do so. The Workgroup discussed that the readiness of the HHDA, as a Supplier Agent, would most likely impact a Supplier's decision as to when to begin settling a customer HH. The Workgroup felt that there was no reason to delay implementing the P339 solution.

A 1 April 2017 Implementation Date also satisfies Ofgem's target of introducing changes that remove barriers to elective HH Settlement by early 2017.

### Impact Assessment respondents' views on BSC Release cycle

There was no consensus amongst respondents to the Impact Assessment on the effect of implementing P339 outside of a standard BSC System Release. Some indicated it would be preferably to be part of standard Release whilst other respondents had the opposite view.

#### Assessment Consultation Question

Do you agree with the Workgroup's recommended Implementation Date?

*Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B



## Views on which new CCCs are required

ELEXON identified 30 potential new CCCs which were considered by the Workgroup. Details of these new CCC can be found in Attachment C.

There were 20 new CCCs identified as definitely required and 10 that were optional. The Workgroup agreed that all 30 should be created under P339. The main point of debate was around the 10 CCCs which have a consumption component indicator of 'M' – Metering System specific line losses. The Workgroup felt that it was highly unlikely for Metering System specific line losses to be required for Measurement Classes "F" and "G". However if there is the slightest possibility that these CCCs could possibly be used in the future, it would be efficient to create them now rather than leaving open the possibility that another Modification would have to be raised in the future. The Workgroup felt that there is no significant disadvantage in creating all 30, even if some of them were never used, as there is no additional cost to BSC Parties.

### Consumption component indicator

Consumption component indicator can have values of:

C – Basic consumption (or generation)

M – metering system specific line losses

L – metering system non-specific line losses

### Assessment Consultation Question

Do you agree with the Workgroup's view that 30 new CCCs should be created?

*If you believe that some new CCCs are required but fewer than 30, please specify which CCCs you believe are required, with reference to the table of proposed new CCCs in Attachment C.*

The Workgroup invites you to give your views using the response form in Attachment B

## Views on Scaling Weights

One member of the Workgroup believes that is not necessary/desirable to apply different Scaling Weights to Measurement Classes "E", "F" and "G". However other members of the Workgroup disagreed.

The Workgroup agreed that the Scaling Weights should mirror the non Half Hourly (NNH) equivalents,<sup>3</sup> specifically:

- All new CCCs for AE should have a Scaling Weight of 0;
- All new CCCs for AI with a consumption component indicator of C should have a Scaling Weight of 1; and
- All new CCCs for AI with a consumption component indicator of L and M should have a Scaling Weight of 1.2.

Note, that new CCCs with a consumption component indicator of 'M' do not have NHH equivalents. This has been assigned a Scaling Weight of 1.2 to be aligned with consumption component indicator 'L'.

Details of the proposed Scaling Weights for the new CCC are show in Attachment C.

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<sup>3</sup> Note that these value can be changed in the future by the usual MDD change process, as set out in [BSCP509 'Changes to Market Domain Data'](#).

### Assessment Consultation Question

Is it beneficial to be able to apply different Scaling Weights for Measurement Classes "E", "F" and "G"?

*Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

### Assessment Consultation Question

Do you agree with the proposed values of the Scaling Weights for Measurement Classes "E", "F" and "G"?

*Please refer to the table in Attachment C for a full list. Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

## Consumption Level Indicator

During the first P339 Workgroup meeting, the members felt that it would not be necessary to include the Consumption Level Indicator in MDD as it would require wider system changes for a range of BSC Parties and non-BSC parties. This view was supported by the respondents to the Impact Assessment. Several respondents indicated that this would have greater impacts and result in higher costs and would require a longer lead time.

### Assessment Consultation Question

Do you agree that Consumption Level Indicators are not required in the MDD at this time?

*Please give your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

The Workgroup also discussed that now there are unique CCCs for each Measurement Class, it would be appropriate to rename 'Consumption Level Indicator' as 'Measurement Class Indicator'. It was agreed that instead of renaming 'Consumption Level Indicator' a new field would be added for 'Measurement Class Indicator'. The valid values (A, B, C, D, E, F, G) would be the same letter as the Measurement Class.

### Assessment Consultation Question

Will your organisation be impacted by the addition of 'Measurement Class Indicator'?

*Please give your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

## Flow Validation Issues

The Workgroup considered an existing issue that could be exacerbated by the implementation of P339. The issue is that data flows which contain aggregated consumption data for supply points which have been assigned Measurement Class "F" or "G" have been failing validation. Following the creation of Measurement Classes "F" and "G" under P300, new 'dummy' Standard Settlement configurations (SSCs) and Time Pattern Regime (TPRs)<sup>4</sup> were created but were not added into MDD. This means

<sup>4</sup> These are reported on the [D0030 'Aggregated DUoS Report'](#), [D0242 Supercustomer DUoS Daily Statement](#) and the [D0314 'Non Half Hourly Embedded Network DUoS Report'](#) against Profile Class "0", which is also not in MDD.

Distributors have to manually load the mapping information into their systems. The information is currently published on the [ELEXON website](#).

The Workgroup felt that until the DCUSA Change [DCP268](#) 'DUoS Charging Using HH settlement data' is implemented, the exact requirements are unclear. The Workgroup agreed that a temporary work around (i.e. publishing the mapping information in one place) would be sufficient in the short term.

## Detailed Requirements

The Workgroup reconsidered the Detailed Requirements which were set out in the P339 Impact Assessment. It was agreed that Requirement 1.4 was unnecessary so it has been removed. It was also agreed that any new mapping information should be published on the ELEXON website.

Following the Workgroup meeting, ELEXON reviewed requirements 3.3 and 3.4 and felt that new SSCs would not be required. Instead LDSOs would need to create new Line Loss Factor Class (LLFC) IDs and map these to the existing SSC. This was agreed with the Workgroup by correspondence following the second Workgroup meeting.

The revised detailed requirements are set out in Appendix 3.

## Self-Governance

The Workgroup's initial unanimous view is that P339 does meet the Self-governance criteria and should therefore be treated as a Self-Governance Modification Proposal.

### Assessment Consultation Question

Do you agree with the Workgroup's unanimous view that P339 should proceed as a Self-Governance Modification Proposal?

*Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B

## Workgroup's consideration of potential alternative solution

The Workgroup agreed not to progress the potential alternative solution, as set out in the P339 Impact Assessment. This view was informed by the respondents to the Impact Assessment, many of whom did not support the potential alternative solution.

### Assessment Consultation Question

Do you agree with the Workgroup that there are no other potential Alternative Modifications within the scope of P339 which would better facilitate the Applicable BSC Objectives?

*Please provide your rationale and, if 'No', please provide full details of your Alternative Modification(s) and your rationale as to why it/they better facilitate the Applicable BSC Objectives.*

The Workgroup invites you to give your views using the response form in Attachment B

## Additional Assessment Procedure Consultation Question

The Workgroup believe that the P339 solution is aligned with Ofgem's recommendations on HH Settlement, as set out in the paper '[Elective half-hourly settlement: conclusions paper](#)'.

### Assessment Consultation Question

Do you agree with the Workgroup's view that the P339 solution is aligned with Ofgem's recommendations on HH Settlement?

*Please provide your rationale.*

The Workgroup invites you to give your views using the response form in Attachment B



## Workgroup's views on the Applicable BSC Objectives

The initial **majority** view of the Workgroup is that P339 does better facilitate Applicable BSC Objectives (c) and (d) when compared to the current baseline and therefore initially recommends that P339 is **approved**.

The views of the Workgroup are summarised in the table below.

Does P339 better facilitate the Applicable BSC Objectives?		
Obj	Proposer's Views	Other Workgroup Members' Views <sup>5</sup>
(a)	• <b>Neutral</b>	• <b>Neutral</b>
(b)	• <b>Neutral</b>	• <b>Neutral</b>
(c)	• <b>Yes</b> - Elective HH Settlement opens up the potential for innovative new products in the domestic retail market thus increasing competition. This Proposed Modification will remove barriers to an elective HH Settlement market and facilitates this BSC objective.	<ul style="list-style-type: none"> <li>• <b>Neutral (1 of 5)</b> – This Modification itself does not directly increase competition, it only creates the <i>potential</i> for new products. It may have no impact on competition at all.</li> <li>• <b>Yes (3 of 5)</b> – Agree with Proposer.</li> <li>• <b>No (1 of 5)</b> – Applying 'random' Scaling Weights to different CCCs does not facilitate competition. Many of the other objectives of this modification could be achieved by another means.</li> </ul>
(d)	• <b>Yes</b> - This Proposed Modification creates the facility for microgeneration sites to be settled without the need for large volumes of site specific HH data to be passed between Parties.	<ul style="list-style-type: none"> <li>• <b>Neutral (2 of 5)</b> – This Modification itself does not directly promote efficiency. It only creates the potential for microgeneration to be settled more efficiently. It may have no impact on efficiency at all.</li> <li>• <b>Yes (2 of 5)</b> – Agree with Proposer.</li> <li>• <b>No (1 of 5)</b> – Implementing this Modification for the purpose of being able to changing Scaling Weights is inefficient, as changing Scaling Weight will have very little effect in practice.</li> </ul>
(e)	• <b>Neutral</b>	• <b>Neutral</b>
(f)	• <b>Neutral</b>	• <b>Neutral</b>

### What are the Applicable BSC Objectives?

(a) The efficient discharge by the Transmission Company of the obligations imposed upon it by the Transmission Licence

(b) The efficient, economic and co-ordinated operation of the National Electricity Transmission System

(c) Promoting effective competition in the generation and supply of electricity and (so far as consistent therewith) promoting such competition in the sale and purchase of electricity

(d) Promoting efficiency in the implementation of the balancing and settlement arrangements

(e) Compliance with the Electricity Regulation and any relevant legally binding decision of the European Commission and/or the Agency [for the Co-operation of Energy Regulators]

(f) Implementing and administrating the arrangements for the operation of contracts for difference and arrangements that facilitate the operation of a capacity market pursuant to EMR legislation

### Assessment Consultation Question

Do you agree with the Workgroup's initial majority view that P339 does better facilitate the Applicable BSC Objectives than the current baseline?

*Please provide your rationale with reference to the Applicable BSC Objectives.*

The Workgroup invites you to give your views using the response form in Attachment B

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<sup>5</sup> The number in brackets indicates the number of voting Workgroup members out of the total number of voting Workgroup members.

## Appendix 1: Workgroup Details

### Workgroup's Terms of Reference

Specific areas set by the BSC Panel in the P339 Terms of Reference

Is the introduction of new CCCs for Export in Measurement Classes "E", "F" and "G" appropriate, taking into account the P300 Workgroup views?

What are the appropriate Scaling Weight values for Measurement Classes "E", "F" and "G"?

Is the Consumption Level Indicator required in MDD and other data flows?

How does the P339 solution align with Ofgem's recommendations on HH Settlement?

In addition to the aggregation of HH Export volumes for the billing of DUoS charges, what changes need to be considered in relation to TNUoS charges?

What are the impacts and benefits to consumers?

What changes are needed to BSC documents, systems and processes to support P339 and what are the related costs and lead times?

Are there any Alternative Modifications?

### Assessment Procedure timetable

P339 Assessment Timetable

Event	Date
Panel submits P339 to Assessment Procedure	9 Jun 16
Workgroup Meeting 1	11 Jul 16
Industry Impact Assessment	29 Jul 16 – 19 Aug 16
Workgroup Meeting 2	W/B 22 Aug 16
Assessment Procedure Consultation	9 Sep – 30 Sep 16
Workgroup Meeting 3	W/B 10 Oct 16
Panel considers Workgroup's Assessment Report	10 Nov 16



## Workgroup membership and attendance

P339 Workgroup Attendance			
Name	Organisation	11 Jul 16	24 Aug 16
Members			
Talia Addy	ELEXON ( <i>Chair</i> )	✓	✗
Douglas Alexander	ELEXON ( <i>Chair</i> )	✗	✓
Alison Cross	ELEXON ( <i>Lead Analyst</i> )	✓	✓
Conor Maher-McWilliams	OVO Energy Ltd ( <i>Proposer</i> )	✓	✗
Stephen Harris	OVO Energy Ltd ( <i>Proposer Alternate</i> )	✗	✓
Barney Scott	OVO Energy Ltd ( <i>Proposer Alternate</i> )	✗	✓
Colin Prestwich	SmartestEnergy Ltd	✓	✗
Phillip Russell	Independent	✓	✓
Paul Akrill	IMServ	✓	✗
Walter Hood	Everis	✓	✓
Dermot Hearty	Salient Systems Limited	✓	☎
Haydn Wyllis	SSE	✓	☎
Chris Ong	UK Power Networks	✓	✗
Imran Bannister	Utilita	✗	✗
Christopher Rotheram	OPUS Energy	✗	✓
Attendees			
Steve Francis	ELEXON ( <i>Design Authority</i> )	✓	✗
Kathryn Gay	ELEXON ( <i>Settlement Operations</i> )	✓	✗
Adam Jessop	ELEXON ( <i>Settlement Operations</i> )	✗	✓
Toby Godrich	ELEXON ( <i>Lead Lawyer</i> )	✓	✗
Martin Bell	Ofgem	✓	✓
Daniel Hatton	Utilita	✗	✓
Ian Hall	IMServ	✗	☎

## Appendix 2: Revised detailed requirements

### Requirement 1

The BSC must introduce the new CCCs for Measurement Classes "E", "F" and "G".

1.1	The BSC will be modified to introduce new CCCs and describe their relationship to the existing Measurement Classes.
1.2	The new CCCs will be entered into Market Domain Data for use by participants.
1.3	HHDA's and SVAA will need to be able to process the new CCCs within their systems.

### Requirement 2

HH Export data must be submitted into Settlement using the new CCCs.

2.1	HHDA's will need to be able to allocate Metering System Identification Administration Numbers (MSIDs) to the new CCCs
2.2	HHDA's must be able to submit data to the SVAA, should they be appointed to a Metering System that is registered to Measurement Classes "E", "F" or "G", using the D0040 and D0298 data flows.
2.3	The SVAA must be able to receive the D0040 and D0298 data flows with additional rows reflecting the new CCCs

### Requirement 3

The SVAA must aggregate data for Measurement Classes "E", "F" and "G", processing the amended D0040 and D0298 data flows into the existing D0030 and D0314 data flows.

3.1	The SVAA must report HH Aggregated data on the D0030 data flow against Profile Class (PC) "0".
3.2	The SVAA must include the HH data for the CCCs and Measurement Classes in the existing D0030 and D0314 data flows, with no changes made to the structure of the flows.
3.3	LDSOs must provide new pseudo-SSCs mapped to a single rate TPR for AE. (Existing SSCs and TPR can be used for the new AI CCCs).
3.4	LDSOs will use existing <sup>6</sup> LLFC IDs for Active Export for Measurement Classes "F" and "G" which are mapped to new pseudo-SSCs on the P0239 paper flow. (Existing LLFC IDs can be used for the new AI CCCs)
3.5	BSCCo will publish the new LLFC IDs and mapping information on the BSCCo Website

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<sup>6</sup> It is also possible to create new LLFCs if desired.

## Appendix 3: Glossary & References

### Acronyms

Acronyms used in this document are listed in the table below.

Acronyms	
Acronym	Definition
AE	Active Export
AI	Active Import
BSC	Balancing and Settlement Code
CCC	Consumption Component Class
CSD	Code Subsidiary Document
CT	Current Transformer
CUSC	Connection and Use of System Code
DCUSA	Distribution Connection and Use of System Agreement
DUoS	Distribution Use of System
DTC	Data Transfer Catalogue
FiT	Feed-in-Tariff
GSPGCF	Grid Supply Point Group Correction Factor
HH	Half Hourly
HHDA	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector
ISRA	Initial Settlement and Reconciliation Agency
LDSO	Licensed Distribution System Operator
LLFC	Line Loss Factor Class
MDD	Market Domain Data
MRA	Master Registration Agreement
MSID	Metering System Identification Number
NHH	Non Half Hourly
PC	Profile Class
PV	Photo-voltaic
SSC	Standard Settlement Configuration
SRAG	Settlement Reform Advisory Group
SVAA	Supplier Volume Allocation Agent
TNUoS	Transmission Network Use of System
TPR	Time Pattern Regime
WC	Whole Current

## DTC data flows and data items

DTC data flows and data items referenced in this document are listed in the table below.

DTC Data Flows and Data Items	
Number	Name
D0030	<a href="#">Aggregated DUoS Report</a>
D0040	<a href="#">Aggregated Half Hour Data File</a>
D0298	<a href="#">BM Unit Aggregated Half Hour Data File</a>
D0242	<a href="#">Supercustomer DUoS Daily Statement</a>
D0314	<a href="#">Non Half Hourly Embedded Network DUoS Report</a>

## External links

A summary of all hyperlinks used in this document are listed in the table below.

All external documents and URL links listed are correct as of the date of this document.

External Links		
Page(s)	Description	URL
3	Approved Modification P300	<a href="https://www.elexon.co.uk/mod-proposal/p300/">https://www.elexon.co.uk/mod-proposal/p300/</a>
4	BSC Sections	<a href="https://www.elexon.co.uk/bsc-related-documents/balancing-settlement-code/bsc-sections/">https://www.elexon.co.uk/bsc-related-documents/balancing-settlement-code/bsc-sections/</a>
4	SRAG's Report to BSC Panel	<a href="https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRAG_Report_PUBLIC2.pdf">https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRAG_Report_PUBLIC2.pdf</a>
4	Rejected Modification P280	<a href="https://www.elexon.co.uk/mod-proposal/p280-introduction-of-new-measurement-classes/">https://www.elexon.co.uk/mod-proposal/p280-introduction-of-new-measurement-classes/</a>
5	GSP Group Correction Guidance note	<a href="https://www.elexon.co.uk/wp-content/uploads/2015/02/GSP_Group_Correction_v4.0.pdf">https://www.elexon.co.uk/wp-content/uploads/2015/02/GSP_Group_Correction_v4.0.pdf</a>
6 and 8	Modification Proposal P339	<a href="https://www.elexon.co.uk/mod-proposal/p339/">https://www.elexon.co.uk/mod-proposal/p339/</a>
6	Modification Proposal P346	<a href="https://www.elexon.co.uk/mod-proposal/p346/">https://www.elexon.co.uk/mod-proposal/p346/</a>
8 and 9	BSCP509 'Changes to Market Domain Data'	<a href="https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/5/?show=10&amp;type">https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/5/?show=10&amp;type</a>
8 and 10	CUSC Change Proposal CMP266 'Removal of Demand TNUoS charging as a barrier to future elective Half Hourly settlement'	<a href="http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/CUSC/Modifications/CMP266/">http://www2.nationalgrid.com/UK/Industry-information/Electricity-codes/CUSC/Modifications/CMP266/</a>

External Links		
Page(s)	Description	URL
12	DCUSA Change Proposal DCP268 - DUoS Charging Using HH settlement data	<a href="https://www.dcusa.co.uk/Lists/Change%20Proposal%20Register/DispForm.aspx?ID=293&amp;Source=https%3A%2F%2Fwww.dcusa.co.uk%2FSitePages%2FActivities%2FChange-Proposal-Register.aspx&amp;ContentTypeId=0x0100684A1DE09E1F9740A444434CF581D435">https://www.dcusa.co.uk/Lists/Change%20Proposal%20Register/DispForm.aspx?ID=293&amp;Source=https%3A%2F%2Fwww.dcusa.co.uk%2FSitePages%2FActivities%2FChange-Proposal-Register.aspx&amp;ContentTypeId=0x0100684A1DE09E1F9740A444434CF581D435</a>
12	Mapping information for LLFCs and dummy SSCs and TPRs.	<a href="https://www.elexon.co.uk/wp-content/uploads/2015/01/P300-LLFCs-and-dummy-SSC-TPRs1.pdf">https://www.elexon.co.uk/wp-content/uploads/2015/01/P300-LLFCs-and-dummy-SSC-TPRs1.pdf</a>
14	Ofgem's Elective half-hourly settlement: conclusions paper	<a href="https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper">https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper</a>