ELEXON

CP Progression Paper

CP1558 'New Registration data items and processes to support the MHHS transition'

Contents

About This Document

Not sure where to start? We suggest reading the following sections:

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- Have longer? Read all sections and the annexes and attachments

This document provides information on new Change Proposal (CP) and outlines our proposed progression timetable for this change, including when it will be issued for CP Consultation in the next suitable Change Proposal Circular (CPC) batch.

We are presenting this paper to the SVG on 1 March 2022 to capture any comments or questions from Committee Members on this CP before we issue it for consultation.

There are four parts to this document:

- This is the main document. It provides a summary of the solution, impacts, anticipated costs, and proposed implementation approach, as well as our proposed progression approach for this CP.
- Attachment A contains the CP proposal form.
- Attachments B-C contain the proposed redlined changes to deliver the CP solution.

Committee

Supplier Volume Allocation Group

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1. Summary

Why change?

In its consultation on the [Detailed MHHS Target Operating Model Design, Data Items and Processes](#) in December 2020, the Code Change and Development Group (CCDG) set out the Registration Service data items needed for Market-wide Half-Hourly Settlement (MHHS) to form part of the Design Baseline published in **April 2022**. However, it is concerned that starting migration to Half Hourly (HH) Settlement in **October 2024** with poor quality underlying data will lead to avoidable time and effort being spent trying to fix issues during the twelve month migration period.

Solution

The CCDG has recommended that a subset of the Registration Service data items required for MHHS are introduced in **February 2023**, about 18 months before migration is due to commence in **October 2024**. This is because these items are critical to the MHHS rules and processes.

Impacts and costs

This CP is expected to impact Supplier Meter Registration Agents (SMRAs) and Licensed Distribution System Operators (LDSOs).

This CP is a document only Change and will impact BSCP501 'Supplier Meter Registration Service' and BSCP515 'Licensed Distribution', with no central system changes required.

The central implementation costs for this CP will be less than £1,000 to implement the relevant document changes.

Implementation

This CP is recommended for implementation on 23 February 2023 as part of the standard February 2023 BSC Release. This is the earliest practicable BSC release following the implementation of the Central Switching Service (CSS).

2. Why Change?

What is the issue?

The CCDG set out the Registration Service data items needed for MHHS to form part of the Design Baseline published in **April 2022**. However, it is concerned that starting migration to Half Hourly (HH) Settlement in **October 2024** with poor quality underlying data would lead to avoidable time and effort being spent trying to fix issues during the twelve month migration period.

Background

In its MHHS transition consultation, the CCDG recommended that a subset of Registration Service data items required for MHHS are introduced in **February 2023**, about 18 months before migration is due to commence in October 2024. This is because these items are so critical to the MHHS rules and processes that going live with poor quality data would lead to avoidable time and effort being spent fixing issues during the 12 month migration period.

The CCDG recommended that these critical data items and supporting BSC processes are introduced into existing Supplier Meter Registration Service (SMRS) systems in **February 2023** to allow sufficient time for them to be back populated for all Supplier Volume Allocation (SVA) Metering Systems.

The CCDG has done further pre-work to identify and define the impacts to interfaces and market messages, supported by SMRAs In the case of the D0312 'Notification of Meter Information to MPAS', this will be progressed under a separate Retail Energy Code (REC) change, including a change to the Energy Market Data Specification (EMDS).

In addition to the new data items and processes introduced by this CP from **February 2023**, supporting activities will be needed to populate values for existing SVA Metering Systems, and a period of data cleanse in the lead up to the migration to MHHS. These activities are expected to commence in late 2022 and run through to mid-2024 and are not covered by this CP. They will be coordinated by the MHHS Programme beginning in Q2 of 2022, and we will provide clarity on these proposals in a subsequent consultation.

The CCDG recognises that the proposed Implementation Date will be challenging for all impacted participants given the implementation of the Switching Significant Code Review (SCR) in mid-2022. Impacts on the industry will be continually re-assessed as more detail becomes available.

3. Solution

Proposed solution

The Retail Energy Code (REC) has raised the change R0032 'New Registration data items and processes to support the transition to MHHS'. This BSC CP and R0032 will collectively deliver the CCDG's transition recommendation as follows:

This CP will:
- Create Connection Type, Connection Type Effective From Date (EFD) and Associated Import/Export Metering System Identifier (MSID) as BSC owned data items in the EMDS.
- Recognise Energy Direction and Metered Indicator in BSCP501 and BSCP515.
- Modify existing processes in BSCP501 and BSCP515 to require that these data items are populated on connection of a new SVA Metering System and can be amended if the LDSO is made aware of a change or an incorrect value.

R0032 will:
- Implement changes to the D0312 dataflow.
- Create Electricity Smart Meter Equipment (ESME) Id and Number of Displayed Register Digits as new REC owned data items in the Data Specification
- Make changes to the Electricity Enquiry Service (EES, a.k.a. ECOES) to display all new data items (BSC and REC owned) introduced by both CPs
- Consider data access requirements for new items for EES Users (GUI and API), particularly the implications of ESME ID (Smart Meter security).

LDSO mastered data items and processes

These data items will be mastered by the LDSO and set at the point of connection of a new SVA Metering System. The LDSO may be notified of incorrect values as part of the proposed data cleanse activity, or following routine site visit activity, which will require the new items to be updated.

Connection Type (DInew)
These items identify the physical connection as one of four valid types: Whole Current (W), LV Current Transformer (L), HV Current Transformer (H) or EHV Current Transformer (E).

Connection Type Effective From Date (DInew)
This is the date and time from which the value for Connection Type became effective

Metered Indicator a.k.a. *meteringPointMeteredInd (DI90035)*
This data item already exists 'virtually' in SMRS and sent to the Central Switching Service (CSS) to differentiate between metered and unmetered MSIDs. However, it has not been integrated into standard BSC processes, which currently use Measurement Class (MC).

As all Unmetered Supplies (UMS) MSIDs will be settled HH under MHHS, there will be no need to differentiate NHH UMS (MC B) from HH UMS (MC D). Once the MHHS

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transition is complete, Measurement Class will become redundant and can be discontinued.

Energy Direction a.k.a. *meteringPointEnergyFlow (DI90033)*
This is currently derived by the Electricity Online Enquiry Service (ECOES) based on the assigned Line Loss Factor Class (LLFC), but should be mastered by the LDSO as an item in its own right. Energy direction is known at the point of connection, and this determines the relevant LLFC for DUoS charging, rather than the reverse. The CSS, once live in mid-2022, will consume this item and so any impacts on that system must be considered.

Associated Import/Export MSID
This will record the relationship between the respective import MSID and export MSID at a particular site to identify where common processes are needed for both Metering Systems.

Proposals for data population and cleanse following implementation

Although not directly facilitated by this CP, the CCDG, with input from SMRAs, has set out its initial thinking in regard to how these could best be achieved. The MHHS Programme would welcome views on this thinking as part of responses to the consultation and will provide clarity on these proposals in a subsequent consultation.

Data cleanse and associated reporting

Once the new data items have been implemented, a period of data cleanse will need to be carried out under the oversight of the MHHS Programme. The requirements for this will be developed during Q1 of 2022, but some initial thinking has been set out below:

- ECOES will need to change to be able to receive and display the smart Metering and Distribution data items. This will be progressed as part of the related REC change.

- Monthly cleansing reports will need to be produced from the implementation of this CP and R0032 and initial population, through to the near completion of migration.

- These monitoring reports have not yet been defined, but will include the new data items and existing data items to enable recipients to validate and reconcile data to ensure the data is complete and accurate as far as is possible.

- Where items are currently derived in ECOES from other items (e.g. Energy Direction is derived from LLFC Id), these should be sourced directly from the new data items to ensure we achieve our goal of a 'single view of the truth' from as early as possible.

Once these new registration data items and supporting interfaces and processes have been introduced, the CCDG has recommended a period of data cleanse activity from February 2023 to October 2024. This will ensure that the data items that are critical to a successful

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migration and used in the target state is as accurate as possible when migration starts in **October 2024**.

Proposer's rationale

This CP will deliver Recommendation 1 by the CCDG, as set out in its Consultation on the Transition Approach for MHHS.

Given the importance of the MHHS Programme, the early introduction of these key registration items will allow a sufficiently long period of data cleanse, which in turn will significantly de-risk the migration activities due to commence in late 2024.

Proposed redlining

The proposed redlining to BSCP501 and BSCP515 for this CP can be found in Attachments B-C of this paper.

Interactions with REC 3.0

P436 'Consequential BSC changes for Switching SCR (REC 3.0)' will progress the consequential BSC changes needed to align with REC 3.0. REC 3.0 will transfer new obligations and processes formerly in the MRA into BSCP501, which has an interaction with this CP. This CP therefore needs to be re-baselined (updated redlining) against the REC 3.0 baseline by the time it is implemented.

The REC 3.0 changes are expected to be approved by Ofgem by the end of April 2022, therefore we propose two consultations for this CP; the first will have the redlining on the current baseline versions of BSCP501 and BSCP515. This consultation will provide industry the opportunity to comment on the principles proposed under this CP. The second consultation will have the redlining on the REC 3.0 baseline, and will be the opportunity to confirm that the principles from the first consultation have been accurately implemented on the updated baseline. The second consultation will also have more concrete proposals for the initial population and data cleanse activity. However, we do wish to highlight that the material substance of the CP as set out is not expected to change between the first and second consultations.

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4. Impacts and Costs

BSC Party & Party Agent impacts and costs

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	**Impact**
LDSOs	Parties will need to accommodate the new data items and processes introduced by this CP.
SMRAs	

Central impacts and costs

Central impacts

This CP will only impact BSC documentation. No BSC Central Systems will be impacted.

Central Impacts	
Document Impacts	**System Impacts**
BSCP501 'Supplier Meter Registration Service'	None
BSCP515 'Licensed Distribution'	

Impact on BSC Settlement Risks

Impact on BSC Settlement Risks
From February 2023 to October 2024 assurance around the data cleanse activity may be required. This is not a direct affect of the Change but a knock on affect and therefore this CP does not pose an immediate impact to the Settlement Risks.

Central costs

The central implementation costs for this CP will be approximately £1,000 to implement the relevant document changes

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5. Implementation Approach

Recommended Implementation Date

This change is recommended for implementation for 23 February 2023 as part of the standard February 2023 BSC Release. This is the earliest practicable BSC release following the implementation of the CSS.

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Proposed Progression

Progression timetable

We propose to hold two consultations for CP1558 due to the evolving BSC Baseline over the next six months and to give participants more time to engage with CP1558. The first consultation will be published on Monday 7 March 2022 and will include the redlining for CP1558 on the current baseline of BSCP501 and BSCP515 documents.

The second consultation will have the redlining on the REC 3.0 baseline of BSCP501. The second consultation will follow on Monday 9 May 2022, subject to Ofgem approving P436 'Consequential BSC changes for Switching SCR (REC 3.0).'

The table below outlines the proposed progression plan for this CP.

Progression Timetable	
Event	**Date**
CP Progression Paper presented to SVG for information	1 March 2022
1st CP Consultation	7 March 2022 – 1 April 2022
Consultation responses presented to SVG	3 May 2022
2nd CP Consultation	By 9 May 2022 – 6 June 2022
CP Assessment Report presented to SVG for decision	By 5 July 2022
Proposed Implementation Date	23 February 2023

CP Consultation questions

We intend to ask the standard CP Consultation questions for this CP.

Standard CP Consultation Questions
Do you agree with the CP proposed solution?
Do you agree that the draft redlining delivers the CP proposed solution?
Will CP impact your organisation?
Will your organisation incur any costs in implementing CP?
Do you agree with the proposed implementation approach for CP?

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6. Recommendations

We invite you to:

- **NOTE** the proposed progression timetable for the CP; and
- **PROVIDE** any comments or additional questions for inclusion in the CP Consultation.

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Appendix 1: Glossary & References

Acronyms

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

Acronyms	
Acronym	**Definition**
CCDG	Code Change and Development Group
CCS	Central Switching Service
EES	Electricity Enquiry Service
ESME	Electricity Smart Meter Equipment
HH	Half Hourly
LDSO	Licensed distribution system operator
MC	Measurement Class
MHHS	Market-wide Half-Hourly Settlement
NHH	Non-Half Hourly
REC	Retail Energy Code
SCR	Significant Code Review
SMRA	Supplier Meter Registration Agent
SMRS	Supplier Meter Registration Service
TOM	Target Operating Model
UMS	Unmetered Supplies

Data flows and data items

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

Data Flows and Data Items	
Number	**Name**
DI90035	meteringPointMeteredInd
DI90033	meteringPointEnergyFlow
D0312	Notification of Meter Information to MPAS

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**
2	Detailed MHHS Target Operating Model Design, Data Items and Processes Consultation	https://www.elexon.co.uk/consultation/code-change-development-group-consultation-on-mhhs/
2	Code Change and Development Group	https://www.elexon.co.uk/group/code-change-and-development-group-ccdg/
3	CCDG's Consultation on Transition Approach For MHHS	https://www.elexon.co.uk/consultation/ccdg-consultation-on-transition-approach-for-mhhs/
4	R0032 'New Registration data items and processes to support the transition to Market-wide Half-Hourly Settlement (MHHS)'	https://recportal.co.uk/group/guest/-/new-registration-data-items-and-processes-to-support-the-transition-to-market-wide-half-hourly-settlement-mhhs-
6	P436 ''Consequential BSC changes for Switching SCR (REC 3.0)'	https://www.elexon.co.uk/mod-proposal/p436/

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