

ELLEXION

MDD Change Requests for Version 343

Freya Gardner

9 January 2024

MDD CHANGE REQUESTS FOR VERSION 343

- There are five General Change Requests and 18 Fast Track Change Requests for implementation in MDD v343.

Recommendations

We invite you to:

- a) **APPROVE** five General Change Requests for implementation in MDD v343 with a go-live date of 24 January 2024; and
- b) **NOTE** 18 Fast Track Change Requests for implementation in MDD v343 with a go-live date of 24 January 2024.

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CP1588 ‘Mandating Calibration Checks for Check and Main Meters’

Assessment Report – SVG

[Classification – Public]

Anshu Choudhary

9 January 2024

- **Importance of Calibration:** Code of Practice (CoP) 4 details the requirements for calibration, testing and commissioning of Metering Equipment used for Settlement purposes
- **Risk to Settlement :** There is a lack of industry reporting to confirm whether Meter calibration checks are being carried out on the relevant Metering Equipment which poses a risk to Settlement where a lack of data being reported does not allow any analysis to highlight concerns about Meter accuracy to be carried out
- **Certification Period:** CoP4 specifies that for CoP3 and CoP5, after the initial calibration of the Meter pre-installation, there isn't a requirement for a periodic calibration until year 15 for a Type B and year 20 for a Type C. With the low level of capital expenditure, compared to calibration testing, for CoP3 and CoP5 compliant Meters Registrants and Meter Operator Agents (MOAs) are choosing to replace the Meter prior to year 15, or year 10 if subject to a certification period rather than perform a periodic calibration
- **Lack of data on Performance:** As a consequence of this Elexon (BSCCo) has no data on the performance of the Meter, in terms of the errors and the drift from the initial calibration, to determine if there is a risk to Settlement posed by the use of a particular Meter Type
- **Long term accuracy challenges:** No process for Elexon to follow in BSCP601 to take action should it be identified that there is an issue with the long term accuracy of a particular Meter Type or, as required, notify the Office of Product Safety and Standards in the Department for Business and Trade where the Meter Type is on Schedule 4 of Electricity Act 1989

- **Mitigating settlement risk:** This CP will provide an assurance process to confirm whether a Meter Type is still operating within the allowed accuracy limits or is drifting towards, or beyond, the extreme end of the limits. It will also define the steps to be taken where an issue is identified mitigating the risk to Settlement
- **End of life sample calibrations:** This CP will look to create a new section 5.2A in CoP4 to detail the requirements and timescales for end of life sample calibrations. These will focus on Meter Types used in [CoP3](#) and [CoP5](#) Metering Systems
 - The CoP4 end of life sample testing population ranges and sample sizes will be based on the population of a Meter Type an individual Meter Operator Agent is responsible for.
- **Identify the volume of Meter types:** Should this CP be approved Elexon will develop a process to identify the volumes of Meter Types a MOA is responsible for in CoP3 and CoP5 and develop a technique to analyse calibration test results to make an assessment, and if required a recommendation, on the accuracy performance of a Meter Type.

CP1588: Assessment Consultation responses

Question	Yes	No	Neutral	Other
Do you agree with the CP1588 proposed solution?	3	0	0	0
Do you agree that the draft redlining delivers the intent of CP1588?	3	0	0	0
Will CP1588 impact your organisation?	2	1	0	0
Will your organisation incur any costs in implementing CP1588?	2	1	0	0
Do you agree with the proposed implementation approach for CP1588?	3	0	0	0
Do you have any further comments on CP1588?	1	2	0	0

- We received 3 responses to the consultation, all of them were Supplier agents
- All the responses were unanimously in support of CP1588

CP1588: Recommendations

We invite the SVG to:

- a) **APPROVE** the proposed changes to BSCP601 and, CoP4 for CP1588;
- b) **APPROVE** CP1588 for implementation on 29 February 2024 as part of the February 2024 Release; and
- c) **NOTE** that CP1588 will also be presented for decision to the:
 - ISG on 9 January 2024

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CP1587 'Obsolete Metering Equipment'

Assessment Report

Public

Jacob Snowden

09/01/2024

CP1587: Background and Issue

Background

- This CP came from [Issue 93 'Review of the BSC metering Codes of Practice'](#) and corresponds with Aspect 16: Obsolete Metering Equipment

Issue

- The BSC does not currently set out which Meter/Outstation Types are currently manufactured and whether supported or not in the Code of Practice (CoP) [Compliance Protocol Approvals](#) list
- There is also no process in [BSCP601 'Metering Protocol Approval and Compliance Testing'](#) for Elexon to check with Meter/Outstation manufacturers whether an approved Meter/Outstation Type is manufactured and supported
- Risk to Settlement where Meters/Outstations are installed, or continued to be left in service, where they are no longer supported or replacements unavailable
- Similar issues apply to Data Collectors where they can no longer support a protocol for a particular Meter/Outstation Type or wish to withdraw from the market
- Additionally Elexon proposes to reduce administrative burden by removing the requirement to present an information paper to SVG and ISG as endorsed on 6 June 2023 (SVG/268 and ISG/266)

This CP will change [BSCP601 'Metering Protocol Approval and Compliance Testing'](#):

- Amend
 - 1.1 (Scope and Purpose of the Procedure);
 - 1.2 (Main Users of Procedure and their Responsibilities); and
 - 1.3 (Use of the Procedure) to define the new process and obligations on stakeholders.
- Add processes, 2.5 and 2.6, in Section 2 'Interface and Timetable Information' confirming whether Meter/Outstation types are still manufactured and/or supported and to notify Parties and Party agents
- Proposal to allow Elexon to raise a Metering Dispensation to allow unsupported Meter/Outstation Types to be installed where a fault occurs and the Meter/Outstation Type is still in the transition period for removal
- Remove the obligation to notify the Panel sub-Committees, via an information paper. However, still proposing to do so if this relates to an identified issue

CP1587: Assessment Consultation responses

Question	Yes	No	Neutral	Other
Do you agree with the CP1587 proposed solution?	3	1	0	0
Do you agree that the draft redlining delivers the CP1587 proposed solution?	4	0	0	0
Do you agree with the proposed implementation approach for CP1587?	3	1	0	0

Question	High	Medium	Low	None
Will CP1587 impact your organisation?	0	1	2	1
Will your organisation incur any costs in implementing CP1587?	0	1	1	2

- The majority of respondents agree with proposed solution and proposed implementation approach
- All respondents agree that the redlining delivers the intent of CP1587

CP1587: Additional change to BSCP601 redlining

- We propose expanding the title of BSCP601, Section 2.3 to include Data Retrieval Systems
- This should provide clarity to HHDCs that they need to contact BSCCo if they make changes to their data retrieval system (or an approved protocol that sits within it)

2.3 Amendment to Metering Equipment~~, or~~ Asset Metering Equipment or Data Retrieval System

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
2.3.1	At any time	Submit notification of amendment to Metering Equipment, Asset Metering Equipment or Data Retrieval system for an existing Approval and agree impact of change.	Applicant	<u>BSCCo</u>	Details and impact of change.	E-mail, Fax, Post.
2.3.2	Within 30 WD of 2.3.1 above.	Consult with affected Parties (if required) and determine whether Approval for the amendment to Metering Equipment, Asset Metering Equipment or Data Retrieval system can be given.	<u>BSCCo</u>	Affected Parties	Details and impact of change.	As agreed.
2.3.3	Within 5 WD of 2.3.3 above.	Notify Applicant of determination and if new Approval given, update Approval list (see section 3.2).	<u>BSCCo</u>	Applicant Parties Party Agents	<u>BSCCo</u> determination. Approval details. Approval details	E-mail, Fax, Post, BSC Website.
2.3.4	Next opportune meeting	Notify Panel of any updates to Approval list (see section 3.2).	BSCCo	Panel	Panel Report	Internal Process

CP1587: Recommendations

We invite the SVG to:

- a) **APPROVE** the amendments to the proposed redlining for BSCP601;
- b) **APPROVE** the proposed changes to BSCP601;
- c) **APPROVE** CP1587 for implementation on 29 February 2024 as part of the February 2024 Release; and
- d) **NOTE** that CP1587 will also be presented for decision to the ISG on 9 January 2024.

ELEXION

**CP1590 'Enabling use of DTN agent
appointments process for P434'**
Assessment Report

Public

Jacob Snowden

09/01/2024

CP1590: Background and Issue

Background

- BSC modification [P434 'Half Hourly Settlement for UMS Metering Systems'](#) will require the retention of Non-Half Hourly Unmetered Supply (NHH-UMS) MSID in order to carry out the Change of Measurement Class (CoMC) of NHH-HH UMS MSIDs 12 months prior to the UMS Mandate Go Live Date. Under the current timetable, this date is April 2024.

Issue

- BSCP520 'Unmetered Supplies Registered in SMRS' sections 3.1, 3.4 & 3.5 set out that if HH, the supplier must send appointment details to each supplier agent by issuing a D0155 Notification of new Meter Operator or Data Collector Appointment and Terms, and a D0148 Notification of Change to Other Parties. However, it does not stipulate the requirement for a D0011 'Agreement of Contractual terms' to be returned by response by each supplier agent

Solution

- To update BSCP520 'Unmetered Supplies Registered in SMRS' Section 3.1 to reflect the Agent appointment Dataflows that should be used for Data Transfer Network (DTN) derived agent appointments, along with sections 3.4 and 3.5 for the same reasons
- This change will enable suppliers who may be considering the use of DTN derived Dataflows to meet the requirements to migrate their UMS portfolios over the 12 months up to the UMS mandate go live date, e.g. suppliers with large portfolios of NHH UMS MSIDs who are seeking to automate the CoMC of the relevant NHH UMS MSID to HH settlement.

CP1590: Additional redlined documents

Additionally to BSCP520, two other documents will need to be updated to enable CP1590:

- [SVA Data Catalogue Volume 1 Appendix A](#)
 - BSCP document
 - Change to reflect data flows D0011, D0148, D0151, D0155 and D0261
 - To be implemented along with BSCP520 as part of CP1590 on 29 February 2024
- [Energy Market Data Specification \(EMDS\) document](#)
 - REC owned document which forms part of the Energy Market Architecture Repository (EMAR)
 - Change to reflect Market Messages MM00386, MM00043, MM00056, MM00065 and MM00145
 - To be implemented by REC 23 February 2024
- [Feedback from Respondents to the CP1590 Consultation was requested regarding the additional redlined documents. Most approved of the changes, with one providing additional changes](#)

CP1590: Assessment Consultation responses

Question	Yes	No	Neutral	Other
Do you agree with the CP1590 proposed solution?	5	1	0	0
Do you agree that the draft redlining delivers the CP1590 proposed solution?	5	1	0	0
Do you agree with the proposed implementation approach for CP1590?	4	2	0	0

Question	High	Medium	Low	None
Will CP1590 impact your organisation?	2	2	1	1
Will your organisation incur any costs in implementing CP1590?	1	2	2	1

- The majority of respondents agree with proposed solution and proposed implementation approach
- One respondent stated updates to BSCP520 are critical for their organisation to carry out the Change of Measurement Class as part of P434
- One respondent stated that timescales would be difficult to implement by February 2024 and remove old processes. However, this is an optional process which Suppliers/Agents can use currently. CP1590 is ensuring that it is formalised in the BSC and will not remove any processes.

C1590: Additional change to BSCP520 redlining

Additional change to the BSCP520 redlining:

- Propose adding in the clarification for D0302 (as per D0289) to note it is only to be sent to the HHDC

3.1.13	<u>Within 2 WD of 3.1.12</u>	<u>Send notification of rejection of appointment including reason why the request has been rejected</u>	<u>MA</u> <u>HHDC</u> <u>HHDA</u>	<u>Supplier</u>	<u>D0261 Rejection of Contractual terms.</u> <u>Go to 3.1.12 if required.</u>	<u>Electronic or other agreed method</u>
3.1.14	<u>Within 2 WD of 3.1.12</u>	<u>Send confirmation of appointment acceptance</u>	<u>MA</u> <u>HHDC</u> <u>HHDA</u>	<u>Supplier</u>	<u>D0011 Agreement of Contractual terms.</u>	<u>Electronic or other agreed method</u>
3.1.15	<u>Within 1 WD of receiving all applicable D0011s</u>	<u>Send notification of appointment, including start date and associated Agent details.</u>	<u>Supplier</u>	<u>MA.</u> <u>HHDC</u>	<u>D0148 Notification of Change to Other Parties.</u> <u>D0289 Notification of MC/EAC/PC.</u> <u>D0302 Notification of Customer Details</u>	<u>Electronic or other agreed method</u>
3.1.16 ³	Within 5 WD following 3.1.12.	Send Summary Inventory and/or CMS Control File details to MA.	UMSO.	MA.	D0388 – UMS Inventory	Electronic or other agreed method

³ The D0289 and D0302 should be sent the HHDC only.

CP1590: Recommendations

We invite the SVG to:

- a) **APPROVE** the amendments to the proposed redlining for BSCP520 and SVA Data Catalogue Volume 1 Appendix A;
- b) **APPROVE** the proposed changes to BSCP520 and SVA Data Catalogue Volume 1 Appendix A for CP1590;
- c) **APPROVE** CP1590 for implementation on 29 February 2024 as part of the February 2024 Release; and
- d) **NOTE** the required changes to the EMDS document.

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**CP1586 'Defining the requirements for
minimum burden and CT ratios'**

Assessment Report - SVG
[Classification – Public]

Ayo Bammeke

9 January 2024

- **CT Ratio Importance:** The accuracy of energy settlement heavily relies on the appropriate selection of Current Transformer (CT) ratios.
- **Mismatched Ratios:** In some instances, the chosen CT ratios don't align with the circuit's maximum current, leading to potential inaccuracies.
- **Load Conditions Impact:** When the load conditions of a circuit consistently operate below 1% of the rated primary current (I_r), it raises concerns about the precision of the Active Energy data.
- **Metering System Deviations:** There are cases where Metering Systems don't adhere to their designated parameters, especially when they stray from the 25%-100% rated burden range, which can introduce potential inaccuracies.

- **Guideline Refinement:** We aim to enhance the guidelines in CoPs 1, 2, 3, 5 and 10 to account for a comprehensive range of operating conditions, ensuring consistent accuracy across varying scenarios.
- **CT Primary Current Value:** The selection of the CT's primary current value is paramount. It's essential to choose a value that guarantees the Rated Measuring Current remains within the 1% to 120% range under all operational conditions.
- **Addressing Burden Issues:** To maintain the accuracy of energy measurements, it's crucial to address the burden in measurement transformers. The solution proposes the possibility of introducing an additional burden to the secondary side of these transformers when needed.
- **Ensuring Overall Accuracy:** By implementing these measures, we aim to ensure that the total burden remains within the 25% to 100% range of the rated output, adhering to the specified limits of ratio error and phase displacement.

CP1586: Assessment Consultation responses

Question	Yes	No	Neutral	Other
Do you agree with the CP1586 proposed solution?	3	2	0	0
Do you agree that the draft redlining delivers the intent of CP1586?	4	1	0	0
Will CP1586 impact your organisation?	4	0	1	0
Will your organisation incur any costs in implementing CP1586?	3	0	2	0
Do you agree with the proposed implementation approach for CP1586?	4	1	0	0
Do you believe CoP10 should be incorporated into the scope of CP1586 for Metering Systems using Current Transformers?	2	1	2	0
Do you have any further comments on CP1586?	2	1	2	0

- We received 5 responses to the Consultation, three Supplier Agents, one Distributor and one Interconnector user
- The majority of respondents were in support of CP1586
- Inclusion of CoP10 following feedback, reflecting industry-wide adoption of ‘S’ class items

CP1586: Recommendations

We invite the SVG to:

- a) **AGREE** the proposed changes to the redlining for Codes of Practice (CoPs) 3 and 5 and addition of proposed redlining for CoP 10 for CP1586 made following the CP Consultation;
- b) **APPROVE** the proposed changes to Codes of Practice (CoPs) 3 and 5 for CP1586;
- c) **APPROVE** CP1586 for implementation on 29 February 2024 as part of the standard February 2024 Release; and
- d) **NOTE** that CP1586 will also be presented for decision to the:
 - ISG on 9 January 2024

ELEXION

CP1589 'Create Additional Market Participant Role Codes'

Assessment Report - SVG

[Classification –Public]

Ayo Bammeke

9 January 2024

CP1589: Issue and Solution

Issue

- Market Domain Data Entity 45, 'Market Participant Role Code', serves as a distinct identifier for specific Market Roles, ensuring efficient communication and data transfer
- At present, we're restricted to 36 alphanumeric codes by the single-character format, 26 letters (A-Z) and 10 numbers (0-9).
- Currently, these 36 codes have been allocated. They're either actively in use or have been earmarked for upcoming projects, notably by the MHHS Programme
- A lack of available Role Codes could pose significant challenges, potentially delaying new Electricity Market solutions

Solution

- Propose to amend the current format of the Market Participant Role Code from a single alphanumeric character (Char(1)) to two-character format (Char(2))
- This change would significantly increase the number of available codes, and so would resolve the issue permanently

BSC Impact

- BSCP509 Appendix 1
- BSCP509 Appendix 2
- SVA Data Catalogue Volume 2

REC Impact

- EMAR Data Specification

Other Impact

- :Participants that use the 'Fixed Format' DTN Gateway would need to change their systems on the implementation date

CP1589: Assessment Consultation responses

Question	Yes	No	Neutral	Other
Do you agree with the CP1589 proposed solution?	15	2	0	0
Do you agree that the draft redlining delivers the CP1589 proposed solution?	15	1	1	0
Do you agree with the proposed implementation approach (November 2024 BSC Release) for CP1589?	14	3	0	0
Have you identified any alternative solutions to this issue, other than those described in CP1589?	1	16	-	-
If you use the Fixed File Format for DTN headers, will your systems service provider be able to implement the changes in the specified timescales?	4	1	12	-
Would your system be able to process uppercase and lowercase version of the same letter to represent different market participant role codes?	4	11	2	0

Question	High	Medium	Low	None
Will CP1589 impact your organisation?	2	11	3	1
Will your organisation incur any costs in implementing CP1589?	3	7	6	1
What would the impact of implementing CP1589 in February 2025 be to your organisation?	1	1	7	6

Question	Char (2)	Upper / Lower Case	Neutral
Do you prefer the original proposal of Char(2) or the use of upper/lower case letters?	14	2	1

As CP1589 solution would require changes to ISD being delivered by MHHS/Helix, we have raised MHHS CR041

- **MHHS CR041:** Raised on 15 December 2023 to align with CP1589's change from Char(1) to Char(2) in Market Participant Role Codes.
- **MHHS Design Impact:** CP1589 approval would require ISD Entity Id 21 'Role Code' to change to Char(2).
- **MHHS CR041 Decision Timeline:** Estimated decision by DAG in February 2024, bringing the full MHHS impact assessment back for CP1589's decision at SVG meeting on 5 March 2024.
- **Implementation:** MHHS CR041 approval necessary for CP1589 implementation before start of MHHS Transition Period.
- **Cross Code Advisory Group Agreement:** Approach endorsed by CCAG to ensure consistency across MHHS and CP1589 changes.

There is a reasonable chance that the MHHS Design Authority Group (DAG) could reject CR041:

- **CR041** would require additional development and testing, which would add risk to key MHHS milestones

If CR041 was rejected, CP1589 could not be implemented

- CP1589 would effectively be backed out at the start of the Transition Period if CR041 not implemented

Risk to BSCCo - could not allocate new Market Participant Role Codes for new Market Participants when required

- New participants would not be included in ISD and could not use DTN – but mitigation is to use less secure mechanisms to transfer data

If CR041 was rejected, the options for CP1589 are:

- 1) Do nothing - i.e. CP1589 would be withdrawn
- 2) Set a new implementation date for CP1589, [6] months after the start of the Transition Period
- 3) Ask DAG to reconsider decision – i.e. get CR041 implemented for the start of the Transition Period

SVG is invited to provide a view on its risk appetite – i.e. on how it would react to CR041 being rejected

CP1589: Recommendations

We invite the SVG to:

- a) **NOTE** the results of the CP1589 CP Consultation responses; and
- b) **NOTE** the results of the MHHS CR will be presented at March's SVG committee for their decision on CP1589.

ELLEXION

**Compliance Approval – Honeywell Elster
A1700/i**

PUBLIC

09 January 2024

Background (CP1527) and Compliance Approval

- In June 2022, CP1527 changed:
 - CoPs 1, 2, 3, 5 and 10 - now 90 days of HH data per Outstation channel
 - CoPs 3, 5 and 10 - Outstations must have selectable integration periods (30, 20, 15, 10 and 5 mins), same as CoPs 1 & 2
 - BSCP601 to test for the new requirements (and existing CoPs 1 and 2 requirement for selectable integration periods)
- CP1527 incremented the Issue (and version) numbers by one – changes to Meter or Outstation requirements need to be confirmed under BSCP601.
- Honeywell/Elster Metering Limited (Honeywell/Elster) applied for compliance testing against the new Issues of the CoPs 2, 3 and 5, for the A1700/i integral Outstation Meter types (PB2 and PB3)
 - Honeywell submitted evidence to confirm the A1700/i already complies with the new Issues
- Elexon issued updated Certificates of Compliance to Honeywell/Elster in relation to the new Issues of CoPs 3 and 5
- Elexon to take a similar paper to the Imbalance Settlement Group (ISG) in relation to issuing Certificates of Compliance to Honeywell/Elster in relation to the new Issues of CoPs 2 and 3

Update and notification

- We recently published an updated version of the CoP Compliance and Protocol Approval list (v75.0) for these compliance approvals
- We also issued Newscast article notifying BSC Parties and BSC Agent about the compliance approvals.

Recommendations

We invite the SVG to:

- a) **NOTE** that Elexon has issued Honeywell/Elster Metering Limited (Honeywell/Elster), a Meter manufacturer, with updated Certificates of Compliance for its A1700/i integral Outstation Meter types (PB2 and PB3), against the new Issues of Codes of Practice (CoPs) 3 and 5;
- b) **NOTE** that Elexon has updated the 'CoP Compliance and Protocol Approval' list, and issued a Newscast article, about the compliance approvals; and
- c) **NOTE** that Elexon will present a similar paper to the Imbalance Settlement Group about issuing Certificates of Compliance to Honeywell/Elster for the A1700/i integral Outstation Meter types (PB2 and PB3), in relation to CoPs 2 and 3.

ELEXION

**Protocol Approval – Stark Software
International Limited (SSIL) for the Secure
Meters' Prometer 100 Meter types**

PUBLIC

09 January 2024

Recommendations

We invite the SVG to:

- a) **NOTE** that Elexon issued a Certificate of Protocol Approval to Stark Software International Limited, an Half Hourly Data Collector, for the Secure Meters' Prometer 100 Meter types; and
- b) **NOTE** that Elexon updated the 'CoP Compliance and Protocol Approval' list, and issued a Newscast article, about the protocol approval.