

CP Assessment Report

CP1508 'Updating references to the British and International Standards within the relevant Code Subsidiary Documents'

ELEXON



Committee

Supplier Volume Allocation Group

Recommendation

Approve

Implementation Date

27 June 2019 (June 2019 Release)



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About This Document

This document is the Change Proposal (CP) Assessment Report for [CP1508 'Updating standards in the CoPs and BSCP601'](#) which ELEXON will present to the Imbalance Settlement Group (ISG) at its meeting on 23 October 2018 and the Supplier Volume Allocation Group (SVG) at its meeting on 30 October 2018. The ISG and SVG will consider the proposed solution and the responses received to the CP Consultation before making a decision on whether to approve CP1508.

There are nine parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, and proposed implementation approach. It also summarises the ISG and SVG's initial views on the proposed changes and the views of respondents to the CP Consultation.
- Attachments A-G contain the proposed redlined changes to deliver the CP1508 solution.
- Attachment H contains the full responses received to the CP Consultation.

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1 Why Change?

Background

The [Codes of Practice \(CoPs\)](#) and [Balancing and Settlement Code Procedure \(BSCP\) 601 'Metering Protocol Approval and Compliance Testing'](#) reference standards, or sections of a standard, that Metering Equipment must conform to in order to comply with the relevant Code Subsidiary Document (CSD). These standards are the International Electrotechnical Commission (IEC) and British Standards Institution (BSI) standards.

The IEC publishes and governs the International Standards for all electrical, electronic and related technologies, collectively known as 'electrotechnology'. This includes Metering Equipment. All IEC standards are pre-fixed with "IEC".

Metering Equipment can also be required to conform to the British Standards, which are governed by the BSI. British Standards may be prefixed "BS" or "BS EN" (European Normative) to indicate that the standards are also accepted in Europe.

IEC and BSI standards detail the testing methodology and limits of accuracy, under different testing conditions, that the Metering Equipment must conform to in order to be classified under the relevant standard.

What is the issue?

Many of the standards referenced in the CSDs are outdated, having been withdrawn or superseded. This means that parties are unable to install Metering Equipment tested to the latest standard because they will be non-compliant with the CSD.

A generic Metering Dispensation ([D/477](#)) was approved by the SVG ([201/04](#)) and ISG ([199/01](#)) to allow parties to install Metering Equipment tested to the latest standards not currently referenced in the CSDs. This was approved on a lifetime basis. The SVG and ISG acknowledged that a CP would be raised to update the CSDs to supersede the dispensation.

References to the standards throughout the CSDs either detail "IEC" or "BS (EN)". This may be interpreted that a party must install Metering Equipment that is tested to the International Standards but not British Standards, and vice versa, despite the standards being adopted by both the IEC and BSI. For example, the CoPs reference 'BS EN 62053-22'. This standard is adopted by both the IEC and BSI and, therefore, should be referenced as 'BS EN/IEC 62053-22'.



What are the Codes of Practice (CoPs)?

CoPs detail the technical requirements for Metering Systems. These versions are not time limited in the same way as other documents.

When Metering Equipment is first registered in Settlement, it must comply with the requirements which are set out in the relevant Code of Practice in place at that time.



What is Metering Equipment?

Measurement Transformers (voltage, current or combination units), metering protection equipment including alarms, circuitry, associated Communications Equipment and Outstations and wiring.



What is a Generic Metering Dispensation?

Registrants of Metering Systems can apply for a Metering Dispensation if the associated Metering Equipment will or does not comply with the applicable CoP.

Generic Metering Dispensation can be applied to any relevant item of Metering Equipment.

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Proposed solution

CP1508 proposes to update all current references to standards to their latest published equivalent within:

- CoP 1 'the metering of circuits with a rated capacity exceeding 100MVA for Settlement purposes';
- CoP 2 'the metering of circuits with a rated capacity not exceeding 100MVA for Settlement purposes';
- CoP 3 'the metering of circuits with a rated capacity not exceeding 10MVA for Settlement purposes';
- CoP 4 'the calibration, testing and commissioning requirements of Metering Equipment for Settlement purposes';
- CoP 5 'the metering of energy transfers with a maximum demand of up to (and including) 1MW for Settlement purposes';
- CoP 10 'the metering of energy via low voltage circuits for Settlement purposes'; and
- BSCP601 'Metering protocol approval and compliance testing'.

CP1508 does not propose to update:

- CoP 6 'the metering of energy imports via low voltage circuits fused at 100 AMPS or less per phase for Settlement purposes';
- CoP 7 'the metering of energy imports via low voltage circuits fused at 100 AMPS or less per phase for Settlement purposes';
- CoP 8 'the metering of import active energy via low voltage circuits for Non-Half Hourly Settlement purposes'; and
- CoP 9 'the metering of import and export active energy via low voltage circuits for Non-Half Hourly Settlement purposes'.

This is because no Metering Systems are (or have ever been) registered against CoPs 6 and 7. Furthermore, ELEXON understands that no Metering Equipment is currently (or has ever been) available that would comply with the requirements defined in CoPs 6 and 7.

With the introduction of Smart Metering Equipment Technical Specification (SMETS) to cover smart Meter installs, and CoP 10 to cover Advanced Metering installs, no new Metering Systems will be installed to CoPs 8 and 9. This was agreed by a workgroup held by ELEXON on 12 March 2018 to discuss whether the new standards are appropriate for Settlement. The workgroup determined there will be no risk to Settlement from updating the standards within the CSDs.

CP1508 proposes to amend the standard prefixes by changing all references to be prefixed with "BS EN/IEC" where both versions of the standard have been published and approved by the BSI and IEC (and are equivalent). Where the standard has only been published and approved by one organisation, that organisation will be the only body prefixed.

The table below presents the current standards referenced in the CSDs and the latest published equivalent with which it will be replaced.

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| Summary of references to be updated | | |
|-------------------------------------|-------------------------------------|--|
| Current reference | Updated reference | Standard title |
| IEC 60044-1 | BS EN/IEC 61869-2 | Instrument transformers. Current transformers. |
| IEC Standard 185 | | |
| IEC 60044-2 | BS EN/IEC 61869-3 | Instrument transformers. Inductive voltage transformers. |
| IEC Standard 186 | | |
| IEC 60044-3 | BS EN/IEC 61869-4 | Instrument transformers. Combined transformers. |
| IEC Standard 44-3 | | |
| BS EN 61036 | BS EN/IEC 62053-21 | Electricity metering equipment (a.c.): Particular requirements – Static meters for active energy (classes 1 and 2). |
| BS EN 60521 | BS EN/IEC 62053-11 | Electricity metering equipment (a.c.). Particular requirements. Electromechanical meters for active energy (classes 0.5, 1 and 2). |
| BS EN 61268 | BS EN/IEC 62053-23 | Electricity metering equipment (a.c.). Particular requirements. Static meters for reactive energy (classes 2 and 3). |
| BS 5685 Part 4 | Remove | Specification for Class 3 Var Hour Meters. |
| BS EN 61107 | BS EN/IEC 62056-21 | Electricity metering. Data exchange for meter reading, tariff and load control. Direct local data exchange. |
| Statutory Instruments 2006 No. 1679 | Statutory Instruments 2016 No. 1153 | Weights and Measures. The Measuring Instruments Regulations 2016. |

Under the CP Consultation, we also asked whether CP1508 would leave parties with assets that could not be installed compliantly. Some parties may have procured Metering Equipment that was tested and stamped to the old standards referenced in the CSDs. CP1508 will make installation of this Metering Equipment non-compliant. A number of respondents identified Metering Equipment that would be made non-compliant by CP1508. Respondents were unable to provide an estimated value of such equipment, but were supportive of a temporary generic Metering Dispensation to allow the installation of this Metering Equipment. ELEXON intends to raise this Metering Dispensation to be in place before the proposed implementation of CP1508 on 27 June 2019.

Proposer's rationale

The CSDs are out of date with the national and international standards that they quote. While parties can install newer Metering Equipment due to a generic Metering Dispensation (D/477), the CSDs should be updated to ensure alignment to current applicable standards.

Proposed redlining

Attachments A-G contain the proposed changes to deliver CP1508.

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3 Impacts and Costs

Central impacts and costs

Central impacts

This CP will require changes to seven CSDs.

No Central System changes are required for this CP.

| Central Impacts | |
|---|--|
| Document Impacts | System Impacts |
| <ul style="list-style-type: none">• CoP1 (owned by ISG)• CoP2 (owned by ISG)• CoP3 (jointly owned by ISG and SVG)• CoP4 (jointly owned by ISG and SVG)• CoP5 (owned by SVG)• CoP10 (owned by SVG)• BSCP601 (jointly owned by ISG and SVG) | <ul style="list-style-type: none">• None |

Central costs

The central implementation costs for CP1508 will be approximately £960 to implement the necessary document changes.

BSC Party & Party Agent impacts and costs

| BSC Party & Party Agent Impacts | |
|---------------------------------|--|
| BSC Party/Party Agent | Impact |
| Generators | These BSC Parties will be impacted as they procure and may install Metering Equipment in accordance with the CoPs. |
| Suppliers | |
| Distributors | |
| System Operator | |
| Transmission Operator | |
| Meter Operator Agents (MOAs) | MOAs will be impacted as they procure and install Metering Equipment in accordance with the CoPs. |

4 Implementation Approach

Recommended Implementation Date

CP1508 is proposed for implementation on 27 June 2019 as part of the June 2019 BSC Release.

The June 2019 Release is the next available BSC Release that can incorporate the document changes required for CP1508.

5 Initial Committee Views

ISG's initial views

CP1508 was presented to the ISG at its meeting on 21 August 2018 ([ISG208/08](#)) for information, who noted the progression timeline.

The ISG questioned whether parties might have any stored equipment that is to an older standard and so would not be compliant with the revised standard. It added that this would be unlikely as other industry codes have included the new standards for some time, but that it should be considered. ELEXON confirmed it would ask this question of market participants as part of its CP Consultation.

The ISG commented that a similar situation will arise in the future and questioned what mechanisms ELEXON had in place to ensure that this is captured sooner. ELEXON responded that it was looking at building relationships with the relevant bodies to ensure the required BSC changes are identified sooner¹.

SVG's initial views

CP1508 was presented to the SVG at its meeting on 4 September 2018 ([ISG211/04](#)) for information, who noted the progression timeline and made no further comments.

¹ ELEXON has since successfully established working relationships with the relevant standard committees. ELEXON has also reached out to, and established relationships with, experts within the industry who specialise in the update of national standards and their content. This will lead to a faster, more efficient alignment of the CoPs in the future; whilst also ensuring that the proposed changes do not carry an adverse risk to Settlement.

6 Industry Views

This section summarises the responses received to the CP Consultation. You can find the full responses in Attachment H.

| Summary of CP1508 CP Consultation Responses | | | | |
|--|-----|----|---------------------------|-------|
| Question | Yes | No | Neutral/ No Comment | Other |
| Will the implementation of CP1508 leave your organisation with stranded assets that cannot be installed compliantly? | 3 | 2 | 1 | 0 |
| Do you agree with the CP1508 proposed solution? | 5 | 0 | 1 | 0 |
| Do you agree that the draft redlining delivers the intent of CP1508? | 6 | 0 | 0 | 0 |
| Will CP1508 impact your organisation? | 3 | 3 | 0 | 0 |
| Will your organisation incur any costs in implementing CP1508? | 3 | 3 | 0 | 0 |
| Do you agree with the proposed implementation approach for CP1508? | 5 | 1 | 0 | 0 |

Three respondents to the CP Consultation commented that CP1508 may leave them with assets that could not be compliantly installed. The respondents were unable to specify the value of these stranded assets, but noted that a temporary generic Metering Dispensation would rectify this issue.

One respondent commented that they did not agree with the proposed implementation approach, believing that since CoPs 6, 7, 8 and 9 are redundant, ELEXON should consider withdrawing them. The respondent however, acknowledged that this would fall outside the scope of CP1508 and would require a subsequent BSC change.

Comments on the proposed redlining

One respondent commented that the update to SI 2006 1679 in CoP4 and CoP10 had been incorrectly updated. This has been corrected in the attached redlining.

We have also removed an erroneous Housekeeping amendment to CoP3 Section 5.1.3 and CoP5 section 5.1.3. This would have incorrectly and vaguely updated the reference to the accuracy requirements.

| Comments on the CP1508 Proposed Redlining | | |
|---|---|--|
| Document & Location | Comment | ELEXON's Response |
| CoP4 References and Section 6 footnote 8 | Statutory Instruments 2006 No. 1153 is not the correct reference; it should be Measuring Instruments Regulations 2016 (SI 2016/1153). | The reference has been corrected in the redlining. |
| CoP10 References and Section 5.5 | Statutory Instruments 2006 No. 1153 is not the correct reference; it should be Measuring Instruments Regulations 2016 (SI 2016/1153). | The reference has been corrected in the redlining. |

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7 Recommendations

We invite you to:

- **AGREE** the amendments to the proposed redlining for CoP3, CoP4, CoP5 and CoP10 for CP1508 made following the CP Consultation;
- **APPROVE** the proposed changes to CoP3, CoP4, CoP5, CoP10 and BSCP601 for CP1508;
- **APPROVE** CP1508 for implementation on 27 June 2019 as part of the June 2019 Release; and
- **NOTE** that CP1508 will also be presented to the ISG on 23 October 2018 for decision.

Appendix 1: Glossary & References

Acronyms

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

| Acronyms | |
|----------|---|
| Acronym | Definition |
| BS | British Standard |
| BSC | Balancing and Settlement Code |
| BSCP | Balancing and Settlement Code Procedure |
| BSI | British Standard Institute |
| BS EN | British Standard European Normative |
| CoP | Code of Practice |
| CP | Change Proposal |
| CDS | Code Subsidiary Document |
| IEG | International Electrotechnical Commission |
| ISG | Imbalance Settlement Group |
| SVG | Supplier Volume Allocation Group |
| TAA | Technical Assurance Agent |

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 |
| 1 | CP1510 webpage | https://www.elexon.co.uk/change-proposal/cp1508 |
| 2 | BSC Codes of Practice | https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/codes-of-practice/ |
| 2 | BSC Procedures | https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/ |
| 2 | Statement of Generic Metering Dispensation | https://www.elexon.co.uk/guidance-note/statement-generic-metering-dispensations/ |
| 2 | SVG meeting 201 | https://www.elexon.co.uk/meeting/svg-201/ |
| 2 | ISG meeting 199 | https://www.elexon.co.uk/meeting/isg-199/ |
| 6 | ISG meeting 208 | https://www.elexon.co.uk/meeting/isg-208/ |
| 6 | SVG meeting 211 | https://www.elexon.co.uk/meeting/svg-211/ |

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