

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



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### Contents

<b>1</b>	<b>Why Change?</b>	<b>2</b>
<b>2</b>	<b>Solution</b>	<b>3</b>
<b>3</b>	<b>Impacts and Costs</b>	<b>6</b>
<b>4</b>	<b>Implementation Approach</b>	<b>8</b>
<b>5</b>	<b>Initial Committee Views</b>	<b>8</b>
	<b>Appendix 1: Glossary &amp; References</b>	<b>9</b>

### About This Document

The purpose of this Change Proposal (CP) 1508 Consultation is to invite Balancing and Settlement Code (BSC) Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1508. The Imbalance Settlement Group (ISG) and Supplier Volume Allocation Group (SVG) will then consider the consultation responses before making a decision on whether or not to approve CP1508.

There are 10 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.
- Attachment A contains the CP Proposal Form for CP1508.
- Attachments B-H contain the proposed redlined changes to deliver the CP1508 solution.
- Attachment I contains the specific questions on which we seek your views. Please use this form to provide your response to these questions, and to record any further views or comments you wish to be considered.

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CP1508  
CP Consultation

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10 September 2018

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Version 1.0

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Page 1 of 9

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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, have 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 to 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.

CP1508

CP Consultation

10 September 2018

Version 1.0

Page 2 of 9

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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 (and are unlikely to be) registered against CoP 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 CoP 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.

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 2006 No. 1153	Weights and Measures. The Measuring Instruments (Active Electrical Energy Meters) Regulations 2006.

We are also consulting on whether CP1508 will leave Parties with assets that cannot 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 if this Metering Equipment non-compliant. This could be costly to parties that have procured Metering Equipment in bulk and will be left with a substantial amount of Metering Equipment that they can no longer install. If this is the case, ELEXON intends to raise a temporary generic Metering Dispensation to allow the installation of such Metering Equipment.

#### CP Consultation Question

Will the implementation of CP1508 leave your organisation with stranded assets that cannot be installed compliantly?

*If 'Yes', please provide details.*

*If 'Yes', would you support a temporary generic Metering Dispensation to address this?*

We invite you to give your views using the response form in Attachment I

CP1508  
CP Consultation

10 September 2018

Version 1.0

Page 4 of 9

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## 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.

### CP Consultation Question

Do you agree with the CP1508 proposed solution?

*Please provide your rationale.*

We invite you to give your views using the response form in Attachment I

## Proposed redlining

Attachments B-H contain the proposed changes to deliver CP1508.

### CP Consultation Question

Do you agree that the draft redlining delivers the CP1508 proposed solution?

*If 'No', please provide your rationale.*

We invite you to give your views using the response form in Attachment I

### 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"><li>• CoP1</li><li>• CoP2</li><li>• CoP3</li><li>• CoP4</li><li>• CoP5</li><li>• CoP10</li><li>• BSCP601</li></ul>	<ul style="list-style-type: none"><li>• None</li></ul>

##### 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.

## CP Consultation Questions

Will CP1508 impact your organisation?

*If 'Yes', please provide a description of the impact(s) on your organisation and any activities which you will need to undertake between the approval of CP1508 and the CP1508 Implementation Date (including any necessary changes to your systems, documents and processes). Where applicable, please state which of the roles that you operate as will be impacted and any differences in the impacts between each role.*

Will your organisation incur any costs in implementing CP1508?

*If 'Yes', please provide details of these costs, how they arise and whether they are one-off or on-going costs.*

We invite you to give your views using the response form in Attachment I

## 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.

#### CP Consultation Question

Do you agree with the proposed implementation approach for CP1508?

*Please provide your rationale.*

We invite you to give your views using the response form in Attachment I

## 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. They 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 will 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 has 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 not delayed.

### 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 other comments.



## 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
2	BSC Codes of Practice	<a href="https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/codes-of-practice/">https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/codes-of-practice/</a>
2	BSC Procedures	<a href="https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/">https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/</a>
2	Statement of Generic Metering Dispensation	<a href="https://www.elexon.co.uk/guidance-note/statement-generic-metering-dispensations/">https://www.elexon.co.uk/guidance-note/statement-generic-metering-dispensations/</a>
2	SVG meeting 201	<a href="https://www.elexon.co.uk/meeting/svg-201/">https://www.elexon.co.uk/meeting/svg-201/</a>
2	ISG meeting 199	<a href="https://www.elexon.co.uk/meeting/isg-199/">https://www.elexon.co.uk/meeting/isg-199/</a>
8	ISG meeting 208	<a href="https://www.elexon.co.uk/meeting/isg-208/">https://www.elexon.co.uk/meeting/isg-208/</a>
8	SVG meeting 211	<a href="https://www.elexon.co.uk/meeting/svg-211/">https://www.elexon.co.uk/meeting/svg-211/</a>