

CP1466 'Removing SMETS compliant Meters from the scope of BSCP601'



Contents

1	Why Change?	2
2	Solution	3
3	Impacts and Costs	5
4	Implementation Approach	6
5	Initial Committee Views	7
	Appendix 1: Glossary & References	8

About This Document

The purpose of this Change Proposal (CP) CP1466 CP Consultation is to invite BSC Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1466. The Supplier Volume Allocation Group (SVG) and Imbalance Settlement Group (ISG) will then consider the consultation responses before making a decision on whether or not to approve CP1466.

There are four 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's and SVG's initial views on the proposed changes.
- Attachment A contains the Proposal form.
- Attachment B contains the proposed redlined changes to deliver the CP1466 solution.
- Attachment C 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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1 Why Change?

Settlement Reform Advisory Group recommendations

The [Settlement Reform Advisory Group](#) (SRAG) identified a number of changes required to facilitate elective Half Hourly (HH) Settlement for Data Communications Company (DCC) enrolled smart Meters.

The SRAG presented its report to the BSC Panel in February 2016 ([BSC Panel 249/13A](#)). The Panel noted that changes would be raised to progress the SRAG recommendations, including this CP.

What is the issue?

The SRAG recommended changes to [BSC Procedure \(BSCP\) 601 'Metering Protocol Approval and Compliance Testing'](#) to remove the requirement of protocol approval and Code of Practice (CoP) compliance testing, for Smart Metering Equipment Technical Specifications (SMETS) compliant Metering Equipment. There are currently two versions of SMETS; [SMETS1](#) and [SMETS2](#). Suppliers are responsible for compliance testing with the SMETS.

Protocol approval

The method of communication with SMETS2 Meters will be via the DCC infrastructure, and will be common for all Meters serviced by the DCC Communication Service Providers (Arqiva and Telefonica). As such, the requirement of protocol approval for communication with SMETS2 Meters is redundant.

Currently the HH data from SMETS1 (Foundation) Meters will be collected by Supplier Agents. It is anticipated that the DCC will adopt SMETS1 Meters in the future. The SRAG recommended that protocol approval requirements should also be removed for communication with SMETS1 Meters to limit the barriers to elective HH Settlement for these Meters. However, ELEXON notes that the removal of protocol approval for SMETS1 compliant Meters could pose a risk to Settlement, as it is possible that not all SMETS1 Meters will be enrolled in the DCC.

Compliance testing

Currently smart Metering Equipment must be compliance tested twice; under the SMETS and under BSCP601. However, CoP compliance testing under BSCP601 is only required for Meters settled on a HH basis. Therefore, CoP compliance testing for SMETS Metering Equipment could be a barrier to moving Meters to HH Settlement.



What was the SRAG?

The SRAG was a group established by the BSC Panel to help develop solutions to address small scale Settlement issues related to the balancing arrangements. At BSC Panel 249 the SRAG was stood down.



SMETS1 vs SMETS2

SMETS1 is the minimum standard a Foundation smart Meter must meet to be eligible for adoption by the DCC. SMETS2 Meters are enrolled in the DCC from installation. The main difference between SMETS1 and SMETS2 Meters is the security model they use and their communication method.



Protocol approval

Applicants who wish to collect data from an Outstation must demonstrate that their Installation can communicate appropriately using the device's protocol. A protocol, in the context of an Outstation, is the set of rules governing the communication of data between the Outstation and any other device connected to it. It is usually designed by the manufacturer of the Outstation.

CP1466

CP Consultation

12 September 2016

Version 1.0

Page 2 of 9

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Proposed solution

[CP1466 'Removing SMETS compliant Meters from the scope of BSCP601'](#) was raised by ELEXON on 18 May 2016.

This CP proposes to include a statement in BSCP601 Section 1.1 'Scope and Purpose of the Procedure' to specify that the BSCP does not apply to SMETS compliant Metering Equipment. Excluding SMETS compliant Metering Equipment from the scope of BSCP601 removes the requirement of CoP compliance testing for SMETS compliant Metering Equipment and protocol approval for communication with such Metering Equipment. For the avoidance of doubt, this only removes the compliance testing requirements; it does not remove the requirement for this Metering Equipment to be CoP compliant. By removing SMETS compliant Metering Equipment from the scope of BSCP601, any Metering Equipment that complies with a future version of SMETS will also be exempt from protocol approval and CoP compliance testing.¹

The statement referring to SMETS in BSCP601 Section 3.4.22 'Level 1 Passwords' introduced by [CP1450 'Security Requirements for CoP10 Metering Equipment'](#) will also be removed as part of CP1466. If the requirement for compliance testing is removed, the exception in relation to the SMETS security arrangements is no longer relevant.

Proposer's rationale

Suppliers are having Meters built that comply with the SMETS and Ofgem is seeking to remove barriers to elective HH Settlement; as set out in Ofgem's ['Elective half-hourly Settlement conclusions paper'](#).

Protocol approval will not be required for SMETS compliant Meters because the method of communication with the Meter will be common for all SMETS Meters serviced by the DCC Communication Service Providers. Ofgem is also seeking to remove barriers to elective HH Settlement for SMETS1 Meters. It is therefore proposed that protocol approval for communication with SMETS1 Meters is also removed.

Removing CoP compliance testing for Metering Equipment compliant with the SMETS, removes the need for multiple compliance tests. CoP compliance testing is only required for Meters settled on a HH basis. Therefore, removing the requirement for CoP compliance testing for Metering Equipment compliant with the SMETS, removes a potential barrier to elective HH Settlement. Compliance with the SMETS also mitigates the risk of removing CoP compliance testing.

CP Consultation Question

Do you agree with the CP1466 proposed solution?

Please provide your rationale.

[We invite you to give your views using the response form in Attachment C](#)

CP1466
CP Consultation

12 September 2016

Version 1.0

Page 3 of 9

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¹ The requirements for future versions of SMETS may require reconsideration of testing requirements for Settlement purposes e.g. if a SMETS version with Meter variants using Current Transformer was introduced.

Proposed redlining

Attachment B contains the proposed changes to BSCP601 to deliver CP1466.

CP Consultation Question

Do you agree that the draft redlining delivers the CP1466 proposed solution?

If 'No', please provide your rationale.

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

3 Impacts and Costs

Central impacts and costs

CP1466 will require a change to BSCP601. No central system changes are required and there will be no impact on BSC Agents.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">BSCP601	<i>None</i>

The central implementation costs for CP1466 will be approximately £240 (one ELEXON man day) to implement the document changes.

BSC Party & Party Agent impacts and costs

The changes to BSCP601 proposed by CP1466 are document changes only. There is no anticipated impact on Supplier, however there may have a small impact on Half Hourly Data Collectors (HHDCs).

Suppliers are already required to ensure smart Metering Equipment meets the SMETS requirements. For this reason, the change does not impose any additional costs or impacts on Suppliers.

HHDCs will need to communicate with the Supplier to determine if a Meter is SMETS compliant. If a Meter is not SMETS compliant, the HHDC will need to carry out protocol approval.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
HHDC	Additional communication required to determine if a Meter is SMETS compliant

CP Consultation Questions

Will CP1466 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 CP1466 and the CP1466 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 CP1466?

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 C

CP1466
CP Consultation

12 September 2016

Version 1.0

Page 5 of 9

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4 Implementation Approach

Recommended Implementation Date

CP1466 is proposed for implementation on **23 February 2017** as part of the February 2017 BSC Systems Release.

This Implementation Date is proposed to meet the expectations of Ofgem on the progression of changes relating to elective HH Settlement, as set out in Ofgem's ['Elective half-hourly Settlement conclusions paper'](#).

CP Consultation Question

Do you agree with the proposed implementation approach for CP1466?

Please provide your rationale.

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

SVG's initial views

An SVG member queried why ELEXON are trying to facilitate elective HH Settlement prior to the DCC Go-live and how CP1466 will help facilitate elective HH Settlement. ELEXON indicated that there are a number of SMETS1 Meters already in place and removing the requirement of CoP compliance testing removes a barrier to elective HH Settlement. Furthermore, ELEXON noted that protocol approval is not required for SMETS Meters that will be adopted by the DCC.

ISG's initial views

An ISG member had concerns whether this change should apply to SMETS1 Meters. The ISG member noted that while the CP is appropriate for a DCC enrolled Meters, the change should not apply to SMETS1 Meters until they are adopted by the DCC.

An ISG member queried how protocol approval and compliance testing was a barrier to elective HH Settlement, and how CP1466 would remove this barrier. ELEXON noted that at present smart Meters must be CoP compliance tested under BSCP601, in addition to the SMETS. ELEXON noted that the Meters in scope of this change will be compliant with either SMETS1 or SMETS2, so compliance testing with the BSC is a duplication in effort of SMETS compliance testing. Therefore, this change will avoid the need for multiple compliance tests.

ELEXON noted that there is a risk that SMETS1 Meters may not be adopted by the DCC, therefore the removal of protocol approval for these Meters could be seen as a risk.

Appendix 1: Glossary & References

Acronyms

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

Acronyms	
Acronym	Definition
BSC	Balancing and Settlement Code (<i>Industry Code</i>)
BSCP	BSC Procedure (<i>Code Subsidiary Document</i>)
CoP	Code of Practice (<i>Code Subsidiary Document</i>)
CP	Change Proposal
DCC	Data Communications Company
HH	Half Hourly
HHDC	Half Hourly Data Collector (<i>Party Agent</i>)
ISG	Imbalance Settlement Group (<i>Panel Committee</i>)
SMETS	Smart Metering Equipment Technical Specifications
SRAG	Settlement Reform Advisory Group (<i>Panel Committee</i>)
SVG	Supplier Volume Allocation Group (<i>Panel Committee</i>)

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	Description	URL
2	SRAG page of the ELEXON website	https://www.elexon.co.uk/group/settlement-advisory-reform-group-srag/
2	SRAG Report to the Panel	https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRA_G_Report_PUBLIC2.pdf
2	BSCP page of the ELEXON website	https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/
2	SMETS1 policy on government website	https://www.gov.uk/government/publications/smart-metering-implementation-programme-technical-specifications
2	SMETS2 consultation on government website	https://www.gov.uk/government/consultations/smart-metering-equipment-technical-specifications-second-version
3	CP1466 page of the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1466/
3	CP1450 page of the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1450/

External Links

Page	Description	URL
3, 6	Elective HH Settlement conclusions paper on Ofgem website	https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper