

## CP1464 'Requiring HH consumption data to be processed to appropriate precision'



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### About This Document

The purpose of this CP1464 CP Consultation is to invite BSC Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1464. The SVG will then consider the consultation responses before making a decision on whether or not to approve CP1464.

There are three 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 SVG's initial views on the proposed changes.
- Attachment A contains the proposed redlined changes to deliver the CP1464 solution.
- Attachment B 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.

# 1 Why Change?

## Background

The [Settlement Reform Advisory Group](#) (SRAG) identified an issue with the data flow granularity for Half Hourly (HH) consumption data. This issue was originally identified by the Profiling and Settlement Review Group (PSRG) and was also noted in BSC Modification P272 'Mandatory HH Settlement for Profile Classes 5 to 8'.

The SRAG report was presented to the BSC Panel in February 2016 ([BSC Panel 249/13A](#)) and the Panel noted that a CP would be raised to progress the SRAG recommendations relating to data precision.

## What is the issue?

The existing data flows for HH site data only provide for consumption data to be sent to BSC Parties and Supplier Agents to the nearest 100 Watt hours (Wh). The flows are:

- D0003 'Half Hourly Advances';
- D0036 'Validated Half Hourly Advances for inclusion in Aggregated Supplier Matrix'; and
- D0275 'Validated Half Hourly Advances'.

However, smart Meters that meet the requirements of the Smart Metering Equipment Technical Specifications (SMETS) are capable of providing data to the nearest Wh, and the HH consumption data of smaller customers will need to be processed to the nearest Wh.

## Related changes

A Data Transfer Catalogue (DTC) change, DTC CP3492, 'Increasing the precision of data items relating to Half-Hourly (HH) Advances', has been raised to change the relevant Master Registration Agreement (MRA) DTC data flow items (J0177, J0021 and J0281). These flows will be changed to allow HH consumption to be declared to the nearest Wh, i.e. to three decimal places. These items cover Active and Reactive quantities but the change will require only Active Energy to be processed to three decimal places. DTC CP3492 will also require HH agent systems to be able to process data to the nearest Wh.

We understand a decision on DTC CP3492 will be made in July, and we will therefore be able to document the outcome in the CP Assessment Report when we present CP1464 to the SVG for decision.

A separate BSC CP will be raised to progress SRAG recommendations to require either Suppliers or Half-Hourly Data Collectors (HHDCs) to process smart Meter data from Meters enrolled in the DCC. This separate BSC CP will be progressed after related data flow decisions are made under the MRA and is targeted for implementation in the February 2017 Release. The related data flows are likely to contain the same data items as the DTC change referred to above (J0177, J0021 and J0281) which will then be adjusted when the BSC CP is implemented.



### Smart Meter data collection

Smart Meter data will be collected by the Supplier via the Data and Communications Company (DCC) in the future. Pre-DCC smart Meter data is collected by various Supplier Agents. Some of these Meters may never be adopted by the DCC.

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### Proposed solution

[CP1464 'Requiring HH consumption data to be processed to appropriate precision'](#) was raised by ELEXON on 17 May 2016.

This CP proposes to include a new paragraph in the Appendices of [BSCP502 'Half Hourly Data Collection for SVA Metering Systems registered in SMRS'](#) to place an obligation on Suppliers and HHDCs to process data to the nearest Wh where data to that granularity can be obtained from the Meter. The new paragraph will also mandate that where Wh granularity is not available the additional decimal places must be defaulted to zeroes, i.e. '00'.

As noted above, related changes are being progressed to DTC data flow items (to change the Logical Format for the data items to allow for three decimal places and update the physical length for each data item) and to therefore require HH agent systems to be able to process data to the nearest Wh, and a subsequent BSC CP will require either Suppliers or HHDCs to process smart Meter data from Meters enrolled in the DCC. CP1464 will introduce only the basic granularity requirement under the BSC.

### Proposer's rationale

Settlement accuracy could be impacted if HH data from smart Meters is declared to the nearest 100Wh. There are two potential issues that could occur depending on how Suppliers or Supplier Agents process HH data:

- Consumption could be lost in the rounding process; or
- Consumption could appear in the wrong Settlement Period if carried over until it reaches 100Wh.

### Proposed redlining

Attachment A contains the proposed changes to BSCP502 to deliver CP1464.

We propose that the new paragraph be added as '4.1A' in order that it appears at the start of the BSCP502 Appendices (but does not impact any of the existing paragraph numbering).

As well as the new paragraph, Watt hour will be added into the list of acronyms in the introduction section of BSCP502.

#### CP Consultation Questions

Do you agree with the CP1464 proposed solution?

*Please provide your rationale.*

Do you agree that the draft redlining delivers the CP1464 proposed solution?

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

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

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## 3 Impacts and Costs

### Central impacts and costs

CP1464 will require a change to BSCP502. No central system changes are required and there will be no impact on BSC Agents.

The central implementation costs for CP1464 will be approximately £240 (one ELEXON man day) to implement the document changes.

Central Impacts	
Document Impacts	System Impacts
BSCP502 'BSCP502 'Half Hourly Data Collection for SVA Metering Systems registered in SMRS'	<i>None</i>

### BSC Party & Party Agent impacts and costs

The changes to BSCP502 proposed by CP1464 are document changes only. However, CP1464 will place an obligation on Suppliers and HHDCs that process HH consumption data to process such data to the nearest Wh.

The related DTC changes being progressed by DTC CP3492 will require Suppliers and their agents<sup>1</sup> to amend their systems as necessary to process data to three decimal places. We therefore do not believe that implementation of CP1464 will cause any impacts and costs for participants additional to those that will already be associated with the DTC changes.

However, lead times for the HHDC system changes could be from six to 12 months and as such may impact the Implementation Date for this CP.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
Supplier	System changes to process HH data to three decimal places
Supplier Agents	System changes to process HH data to three decimal places

### CP Consultation Questions

Will CP1464 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 CP1464 and the CP1464 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 CP1464?

*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 B

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<sup>1</sup> Supplier 'agents' could include other agents that collect and process data from SMETS1 (foundation) smart Meters such as Smart Meter System Operators (SMSOs).

## 4 Implementation Approach

### Recommended Implementation Date

CP1464 is proposed for implementation on 29 June 2017 as part of the June 2017 BSC Systems Release. The implementation approach for CP1464 aims to take into account the interaction with, and lead times for, related DTC CP3492 and associated changes to Supplier and Supplier Agent systems.

This Implementation Date is proposed to meet the expectations of DECC and Ofgem on the progression of changes relating to elective HH Settlement by early 2017.

#### CP Consultation Question

Do you agree with the proposed implementation approach for CP1464?

*Please provide your rationale.*

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

## 5 Initial Committee Views

### SVG's initial views

The CP1464 Progression Paper was presented to the SVG on 31 May 2016. The SVG noted that following consultation the CP1464 Assessment Report would be presented to it for decision on 2 August 2016. A decision on the related change DTC CP3492 will be made in July, and will be documented in the Assessment Report presented to the SVG for decision.

An SVG member commented that the description of DTC CP3492 was somewhat ambiguous as to whether it concerned both Active and Reactive quantities. The SVG noted that the data flow items cover Active and Reactive quantities but the change will require only Active Energy to be processed to three decimal places; this has been clarified in the description of related changes in Section 1.

The SVG did not identify any issues with this CP and agreed that no additional questions were required for the CP1464 consultation.

## Appendix 1: Glossary & References

### Acronyms

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

Acronyms	
Acronym	Definition
BSC	Balancing and Settlement Code
BSCP	BSC Procedure
CP	Change proposal
DCC	Data and Communications Company
DTC	Data Transfer Catalogue
HH	Half Hourly
HHDCs	Half Hourly Data Collectors
PSRG	Profiling and Settlement Review Group
SMETS	Smart Metering Equipment Technical Specifications (SMETS)
SMSOs	Smart Meter System Operators
SRAG	Settlement Reform Advisory Group
SVG	Supplier Volume Allocation Group (Panel Committee)
Wh	Watt hour

### DTC data flows and data items

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

DTC Data Flows and Data Items	
Number	Name
D0003	Half Hourly Advances
D0036	Validated Half Hourly Advances for inclusion in Aggregated Supplier Matrix
D0275	Validated Half Hourly Advances
J0021	Meter Period Value
J0177	Period Meter Consumption
J0281	Total kWh and (kVArh) of Estimated Periods

## 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	Settlement Reform Advisory Group page of the ELEXON Website	<a href="https://www.elexon.co.uk/group/settlement-advisory-reform-group-srag/">https://www.elexon.co.uk/group/settlement-advisory-reform-group-srag/</a>
2	SRAG Report to the Panel	<a href="https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRAG_Report_PUBLIC2.pdf">https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRAG_Report_PUBLIC2.pdf</a>
3	CP1464 page of the ELEXON Website	<a href="https://www.elexon.co.uk/change/change-proposals/">https://www.elexon.co.uk/change/change-proposals/</a>
3	BSCP page of the ELEXON Website	<a href="https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/">https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/</a>