

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

ELEXON



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About This Document

This document is the CP1464 Final Change Proposal (CP) Report which ELEXON has published following the final decision from the Supplier Volume Allocation Group (SVG) to reject 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 views on the proposed changes and the views of respondents to the CP Consultation, along with the final decision to reject this change.
- Attachment A contains the rejected redlined changes that were proposed to deliver the CP1464 solution.
- Attachment B contains the full responses received to the CP Consultation.

CP1464

Final CP Report

9 September 2016

Version 1.0

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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 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 data 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. As such, the HH consumption data of smaller Customers will need to be processed to the nearest Wh.



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.



Smart Meter data collection

Smart Meter data will be collected by the Supplier via the Data 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.

Proposed solution

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

CP1464 proposed to place an obligation on Suppliers and Half Hourly Data Collector (HHDCs) to process data to the nearest Wh where data to that granularity can be obtained from the Meter. This would have been achieved by including a new paragraph in the Appendices of [BSCP502 'Half Hourly Data Collection for SVA Metering Systems registered in SMRS'](#). The new paragraph would have also mandated that where Wh granularity is not available, the additional decimal places must be defaulted to zeroes, i.e. '00'.

Related changes

DTC CP3492

[Data Transfer Catalogue \(DTC\) CP3492 'Increasing the precision of data items relating to Half-Hourly \(HH\) Advances'](#), was raised to change the relevant Master Registration Agreement (MRA) DTC data items. These data items are:

- [J0177 'Period Metered Consumption'](#);
- [J0021 'Meter Period Value'](#); and
- [J0281 'Total kWh \(and kVArh\) of Estimate Periods'](#).

DTC CP3492 proposed to change the Logical Format of these data items to allow HH consumption to the nearest Wh, i.e. to three decimal places. It also proposed to change the physical length of each data item. Therefore, this DTC change would have required HH agent systems to be able to process data to the nearest Wh.

DTC CP3492 was withdrawn on 28 July 2016 due to negative responses to the industry consultation. The responses identified that participants in both the elective and non-elective HH market use the J0177, J0021 and J0281 data items. Therefore, this change would impact participants outside of the intended scope of the change.

CP1469 and DTC CP3496

Following negative consultation responses to CP1464 and DTC CP3492, ELEXON proposed that the increased precision changes for HH consumption data will be made in two new DTC flows and new data items. The new data flows will hold HH data to the nearest Wh. These changes will be progressed as part of [CP1469 'Changes to support the implementation of the SRAG's recommendations'](#) and related [DTC CP3496 'DTC changes to support the implementation of the SRAG's recommendations'](#). CP1469 was presented to the SVG for information on 2 August 2016 ([SVG186/06](#)).

BSC Parties and Party Agents participating in the elective HH market will use the new data flows. BSC Parties and Party Agents participating in the non-elective HH market will not be obligated to use the new data flows. Having the increased precision HH data in new data flows enables participants in the non-elective HH market to continue using the existing flows without being impacted by the change.

Recommendation for rejection

CP1464 is not dependent on DTC CP3492; however, the intention of CP1464 would not have been met without the implementation of DTC CP3492. Therefore, due to the withdrawal of DTC CP3492 and the negative consultation responses received, we recommend that the SVG rejects CP1464. The SVG rejected CP1464 on 6 September 2016 ([SVG187/03](#)). A revised solution for the increased precision for HH consumption data will be progressed as part of CP1469.

CP1464 and CP1469 are mutually exclusive. The new solution for CP1469 varies from the CP1464 solution, in that BSC Parties and Party Agents in the elective HH market will only use the new data flows. If the SVG approved both CP1464 and CP1469, the redlining of the CPs would conflict.

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 B contains the rejected changes to BSCP502 that were proposed to deliver CP1464.

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

As well as the new paragraph, 'Watt hour' would have been added into the list of acronyms in the introduction section of BSCP502.

3 Impacts and Costs

Central impacts and costs

CP1464 required a change to BSCP502. No central system changes were required and there would have been no impact on BSC Agents.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">BSCP502	<i>None</i>

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

BSC Party & Party Agent impacts and costs

Participant impacts

When producing the CP Consultation, only Suppliers and HHDCs were identified as affected participants. However, the consultation identified that CP1464 will also impact Half Hourly Data Aggregators (HHDA) and Distribution Systems Operators (DSOs).

All eleven respondents to the CP Consultation indicated that CP1464 would have impacted them as they would have to make system changes to handle data to three decimal places.

ELEXON noted that the changes to BSCP502 proposed by CP1464 were document changes only. However, CP1464 would have placed an obligation on Suppliers and HHDCs to process HH consumption data to the nearest Wh.

The related DTC change, DTC CP3492, required Suppliers and their agents to amend their systems to process data to three decimal places. Therefore, the implementation of CP1464 would have caused participants no additional impacts to those associated with the DTC changes.

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

Participant costs

All eleven respondents to the CP consultation noted that there would have been costs relating to CP1464. Four respondents gave estimated development costs which ranged from £20k to hundreds of thousands. One respondent noted there would be a small ongoing cost due to holding more data and additional Data Transfer Network (DTN) costs from larger files.

Implementation Date

The proposed Implementation Date for CP1464 would have been **29 June 2017** as part of the June 2017 BSC Systems Release if the SVG had approved CP1464.

The implementation approach for CP1464 aimed to take into account the interaction with, and lead times for, related DTC CP3492 (which was subsequently withdrawn prior to the rejection of CP1464) and associated changes to Supplier and Supplier Agent systems. This Implementation Date was proposed to meet Ofgem's expectations on the progression of changes relating to elective HH Settlement, as set out in the Ofgem ['Elective half-hourly Settlement conclusions paper'](#).

Three of the respondents to the CP consultation did not agree with the Implementation Date. One of those respondents believed that CP1464 could be implemented earlier, as part of the February 2017 BSC release. However, another respondent believed that November 2017 or February 2018 release dates were more realistic, due to the system changes required. Two respondents were neutral and the other six respondents agreed with the proposed Implementation Date.

In response to the other concerns raised during the consultation phase, along with the withdrawal of DTC CP3492, we recommended that the SVG rejects CP1464 noting that there is a revised solution in CP1469. The SVG rejected CP1464 on 6 September 2016 ([SVG187/03](#)).

SVG's initial views

The SVG considered CP1464 at its meeting on 31 May 2016 ([SVG184/04](#)).

Progression timeline

Many of the SVG's initial comments were about the alignment of CP1464's progression timetable with DTC CP3492; specifically the alignment of the SVG and MRA Development Board (MDB) decisions. However, the comments and proposed alignment of timelines were nullified with the withdrawal of DTC CP3492. Full comments can be found in the [SVG184 Minutes](#).

Reactive data

An SVG Member commented that the reference in the background section of the paper to 'data flow granularity for HH consumption data' may be misleading. The member clarified that this is because it implies to Active Import quantities only, when DTC CP3492 implies that it concerns both Active and Reactive data.

ELEXON explained that in practice there would not be any Reactive data from smart Meters. However, it was agreed that the wording in the CP1464 consultation would be clarified to avoid confusion.

6 Industry Views

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

Summary of CP1464 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1464 proposed solution?	7	4	0	0
Do you agree that the draft redlining delivers the intent of CP1464?	9	1	0	1
Will CP1464 impact your organisation?	11	0	0	0
Will your organisation incur any costs in implementing CP1464?	11	0	0	0
Do you agree with the proposed implementation approach for CP1464?	6	3	2	0
Do you have any further comments on CP1464?	4	7	0	0

Comments on the CP

Four of the eleven respondents to the CP Consultation did not agree with the proposed changes. Three of these respondents highlighted that CP1464 would have had an impact on participants that were not previously identified in the CP proposal. The CP was intended to aid elective HH Settlement, however CP1464 would have amended data items used by participants in both the elective and non-elective HH market. Two DSO respondents noted that amending the J0177 data item would have had an impact on DSO systems in processing the D0036 data flow. Their preferred solution was to either create new data flows or new data items within the existing flows.

The other seven respondents agreed with the proposed changes for CP1464, as the increased precision HH consumption data improves the accuracy of Settlement.

Two respondents questioned how historic data would have been treated under this CP. They noted that data can be collected that relates to Settlement Days prior to the Implementation Date of CP1464.

One respondent questioned the benefit of padding out values to three decimal places with zeros. They believed that this will increase the cost of HHDCs that use the DTN.

Comments on the proposed redlining

One respondent to the CP Consultation did not agree with the proposed redlining. They noted that the redlining did not mention HHDA activity; and questioned if the HHDA would also have to process the HH data to the increased precision. The respondent noted that further clarity may be needed in [BSCP503 'Half Hourly Data Aggregation for SVA Metering Systems Registered in SMRS'](#). Another respondent made a similar comment, indicating that

additional guidance would be useful for HHDA's. ELEXON notes that BSCP503 is redlined to include HHDA activity as part of CP1469.

SVG's final views

At its meeting on 6 September 2016 ([SVG187/03](#)), the SVG considered the proposed solution and the responses received to the CP Consultation before agreeing to reject CP1464.

The SVG noted the withdrawal of related DTC CP3492 and the negative consultation responses received to the CP1464 consultation, particularly from DSOs. The SVG noted that a revised solution is being progressed as part of CP1469.

Final decision

The SVG has:

- **REJECTED** CP1464.

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	Balancing and Settlement Code Procedure (<i>Industry code subsidiary document</i>)
CP	Change Proposal
DCC	Data Communication Company (<i>Licensed industry body</i>)
DSO	Distribution System Operator (<i>BSC Party Role</i>)
DTC	Data Transfer Catalogue (<i>Industry code subsidiary document</i>)
DTN	Data Transfer Network
HH	Half Hourly
HHDA	Half Hourly Data Aggregator (<i>Supplier Agent role</i>)
HHDC	Half Hourly Data Collector (<i>Supplier Agent role</i>)
MDB	Master Registration Agreement Development Board (<i>Industry Panel</i>)
MRA	Master Registration Agreement (<i>Industry Code</i>)
SMETS	Smart Metering Equipment Technical Specifications
SMRS	Supplier Meter Registration Service
SRAG	Settlement Reform Advisory Group (<i>Industry expert group</i>)
SVA	Supplier Volume Allocation
SVG	Supplier Volume Allocation Group (<i>Industry Panel sub-committee</i>)
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 Metered 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	SRAG page on the ELEXON website	https://www.elexon.co.uk/group/settlement-advisory-reform-group-srag/
2	P272 page on the ELEXON website	https://www.elexon.co.uk/mod-proposal/p272-mandatory-half-hourly-settlement-for-profile-classes-5-8/
2	SRAG Report to the Panel	https://www.elexon.co.uk/wp-content/uploads/2015/10/27_249_13A_SRAG_Report_PUBLIC2.pdf
2	D0003 data flow	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0003&FlowVers=1&searchMockFlows=False
2	D0036 data flow	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0036&FlowVers=1&searchMockFlows=False
2	D0275 data flow	https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0275&FlowVers=1&searchMockFlows=False
3	CP1464 page on the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1464/
3, 8	BSCP page on the ELEXON website	https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/
3	DTC CP3492 page on the MRA website	https://mra.mrasco.com/change/increasing-the-precision-of-data-items-relating-to-hh-advances/
3	J0177 data item	https://dtc.mrasco.com/DataItem.aspx?ItemCounter=0177&searchMockItems=False
3	J0021 data item	https://dtc.mrasco.com/DataItem.aspx?ItemCounter=0021&searchMockItems=False
3	J0281 data item	https://dtc.mrasco.com/DataItem.aspx?ItemCounter=0281&searchMockItems=False
3	CP1469 page on the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1469/
3	SVG186 page on the ELEXON website	https://www.elexon.co.uk/meeting/svg-186/?from_url=https://www.elexon.co.uk/events-calendar-item/svg-186/
3	DTC CP3496 page on the MRA website	https://mra.mrasco.com/change/changes-to-support-the-implementation-of-the-srag-recommendations/

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External Links		
Page(s)	Description	URL
4, 7, 10	SVG187 page on the ELEXON website	https://www.elexon.co.uk/meeting/svg-187/?from_url=https://www.elexon.co.uk/events-calendar-item/svg-187/
6	Elective HH Settlement conclusion paper on the Ofgem website	https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper
7	SVG184 page on the ELEXON website	https://www.elexon.co.uk/meeting/svg-184/?from_url=https://www.elexon.co.uk/events-calendar-item/svg-184/