

CP Progression Paper

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

ELEXON



Committee

Supplier Volume Allocation Group



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Contents

1	Why Change?	2
2	Solution	3
3	Impacts and Costs	4
4	Implementation Approach	4
5	Proposed Progression	5
6	Recommendations	6
	Appendix 1: Glossary & References	7

About This Document

This document provides information on new Change Proposal (CP) CP1464 and outlines our proposed progression timetable for this change, including when it will be issued for CP Consultation in the next suitable Change Proposal Circular (CPC) batch.

We are presenting this paper to capture any comments or questions from Supplier Volume Allocation Group (SVG) Members on this CP before we issue it for consultation.

There are three parts to this document:

- This is the main document. It provides a summary of the solution, impacts, anticipated costs, and proposed implementation approach, as well as our proposed progression approach for this CP.
- Attachment A contains the CP1464 proposal form.
- Attachment B contains the proposed redlined changes to deliver the CP1464 solution.

SVG184/04

CP1464
CP Progression Paper

23 May 2016

Version 1.0

Page 1 of 8

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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 (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. DTC CP3492 will also require HH agent systems to be able to process data to the nearest Wh.

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.

SVG184/04

CP1464
CP Progression Paper

23 May 2016

Version 1.0

Page 2 of 8

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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 B 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.

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 agents¹ 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

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.

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

5 Proposed Progression

Progression timetable

The table below sets out the proposed progression plan for CP1464. The CP1464 consultation should align with the Impact Assessment for the related DTC changes.

Progression Timetable	
Event	Date
CP Progression Paper presented to SVG for information	31 May 2016
CP Consultation	6 Jun 16 – 1 Jul 16
CP Assessment Report presented to SVG for decision	2 August 2016
Proposed Implementation Date	29 June 2017 (June 2017 Release)

CP Consultation questions

We intend to ask the standard CP Consultation questions for CP1464. We do not believe any additional questions are required for this CP.

Standard CP Consultation Questions
Do you agree with the CP1464 proposed solution?
Do you agree that the draft redlining delivers the CP1464 proposed solution?
Will CP1464 impact your organisation?
Will your organisation incur any costs in implementing CP1464?
Do you agree with the proposed implementation approach for CP1464?

6 Recommendations

We invite you to:

- **NOTE** that CP1464 has been raised;
- **NOTE** the proposed progression timetable for CP1464; and
- **PROVIDE** any comments or additional questions for inclusion in the CP Consultation.

SVG184/04

CP1464
CP Progression Paper

23 May 2016

Version 1.0

Page 6 of 8

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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	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_SRAG_Report_PUBLIC2.pdf
3	CP1464 page of the ELEXON Website	https://www.elexon.co.uk/change/change-proposals/
3	BSCP page of the ELEXON Website	https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/

SVG184/04

CP1464
CP Progression Paper

23 May 2016

Version 1.0

Page 8 of 8

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