

CP1469 'Changes to support the implementation of the SRAG's recommendations'

ELEXON



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About This Document

The purpose of this Change Proposal (CP) Consultation is to invite BSC Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1469. The Supplier Volume Allocation Group (SVG) will then consider the consultation responses before making a decision on whether or not to approve CP1469.

There are six 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 Proposal form
- Attachments B-D contain the proposed redlined changes to deliver the CP1469 solution.
- Attachment E 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.

CP1469
CP Consultation

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

What are the issues?

Currently, there are no Settlement processes set out under the BSC for elective HH smart Meters. Therefore, changes to [BSC Procedure \(BSCP\) 502 'Half Hourly Data Collection for SVA Metering Systems registered in SMRS'](#) are required to set out the processes for Suppliers to send HH data from DCC enrolled smart Meters to Half Hourly Data Collectors (HHDCs).

The existing data flows for transferring HH data hold HH values to the nearest 100Wh ([D0036 'Validated Half Hourly Advances for Inclusion in Aggregated Supplier Matrix'](#) and [D0275 'Validated Half Hourly Advances'](#)). However, Meters that meet the requirements set out in the Smart Metering Equipment Technical Specifications (SMETS) are capable of providing data to the nearest Wh. Therefore, HH data for smaller customers will need to be processed to the nearest Wh. Data flows between the Supplier and the HHDC will need to reflect this greater precision, as will the data flow between the HHDC and the Half Hourly Data Aggregator (HHDA). Therefore, changes are also required to [BSCP503 'Half Hourly Data Aggregation for SVA Metering Systems registered in SMRS'](#).¹

The SRAG also recommended further clarification of data validation and revisions to data estimation processes for smart Meters where initial estimates are required, or for the replacement of invalid data. For estimation purposes, Market Domain Data (MDD) will need to include new Default Period Profile Class Coefficients (DPPCCs) for Profile Classes 2 'Domestic Economy 7' and 4 'Non-Domestic Economy 7'.

Further changes are required to inform the HHDC of the Supplier's Meter reading schedule (i.e. when to expect HH consumption data) and to allow the Suppliers to send a cumulative register read to the Distribution System Operator (DSO).

Another SRAG recommendation was to remove the requirement for Proving Tests (a test that shows the HH data at the Meter matches that collected by the HHDC) where HH data is being retrieved by the Supplier (or service provider) from Meters that are compliant with the SMETS. Changes are needed to the Proving Test requirements in BSCP502 and [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#).

¹ This CP, CP1469, supersedes the earlier [CP1464 'Requiring HH consumption data to be processed to appropriate precision'](#) which will be recommended for rejection at the September meeting of the SVG. The alternative solution presented in this CP, CP1469, takes into account the responses to the CP1464 consultation.

Proposed solution

ELEXON raised [CP1469 'Changes to support the implementation of the SRAG's recommendations'](#) on 19 July 2016. This CP proposes to implement the SRAG recommendations for the elective HH Settlement of DCC enrolled smart Meters.

The new processes introduced by this CP will apply where:

- Meters are compliant with the SMETS; and
- HH data is sourced by the Supplier, rather than the HHDC, using the DCC or a Smart Metering System Operator (SMSO).

The changes set out in this CP will introduce new processes for getting smart Meter data from the Supplier to the HHDC. The validation and estimation requirements are also defined under this CP for smart Meters.

CP1469 also gives the Supplier the option of sending the unprocessed HH smart Meter data to the HHDC with sufficient additional information required to process the data into a newly created data flow which will be based on the D0036 data flow (see section below for further details). If this option is used, the Supplier will have to make its own arrangements for getting the HH consumption data to the HHDC from the participant collecting the data (e.g. this could be from an SMSO or a Half Hourly Meter Operator Agent (HHMOA)).

The requirements for Proving Tests for smart Meters are also being removed by the proposed redlining.

Related Data Transfer Catalogue changes

The related Data Transfer Catalogue (DTC) changes (DTC CP 3496 'DTC changes to support the implementation of the Settlement Reform Advisory Group's (SRAG) recommendations') have been raised to create optional new data flows for the transfer of elective HH data. This data will be declared to the nearest Wh. These changes also include allowing the Supplier to send either validated or non-validated HH Meter data to its appointed HHDC. A new 'Supplier Validated Flag' will be created for this purpose. These data flows will be variants of the D0036 and D0275 data flows. The proposed changes to the BSCPs reflect the details of the proposed DTC changes.²

A new value will be added to the valid set for 'Retrieval Method' in the [D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'](#) data flow. The Supplier will use this to notify the HHDC that HH data will be sourced by the Supplier. The existing J0277 'Regular Reading Cycle' data item will inform the HHDC of the frequency with which it will receive the HH data.

There is also a proposed DTC change (also part of DTC CP 3496) to allow a cumulative register read to be sent from the Supplier to the DSO using the [D0010 'Meter Readings'](#) data flow. The DSO needs Metering System level consumption data as they will only receive aggregated HH consumption data from the Settlement processes.

There is a requirement to hold new DPPCCs for Profile Classes 2 and 4 in MDD. These will be used as a backstop for estimating initial consumption data or for estimation where data

² The redlining to BSCP502 may require minor changes depending upon the finalised change to the DTC following consultation.

is missing or invalid. These new DPPCCs will only be used to estimate data for MSIDs in Profile Classes 2 and 4, as notified by the Supplier to the HHDC on the [D0289 'Notification of MC/EAC/PC'](#) data flow. This will occur when customers, who were formerly in Profile Classes 2 or 4, have moved to elective HH Settlement or for new registrations of customers with similar characteristics. This will cause a small increase in the size of the [D0269 'Market Domain Data Complete Set'](#) and [D0270 'Market Domain Data Incremental Set'](#) data flows. The new DPPCCs will be effective from 1 April 2017, and will be progressed through the MDD change process.

Rationale

We have raised CP1469 at the recommendation of the SRAG. The full SRAG report can be found in the SRAG's report to the Panel ([Panel 249/13A](#)).

The proposed changes are required to remove barriers to the elective HH Settlement of data from smart Meters. Ofgem is keen to remove these barriers by early 2017.

Proposed redlining

Attachments B, C and D contain the proposed changes to BSCP502, BSCP503 and BSCP514 respectively to deliver CP1469.

CP Consultation Questions
Do you agree with the CP1469 proposed solution? <i>Please provide your rationale.</i>
Do you agree that the draft redlining delivers the CP1469 proposed solution? <i>If 'No', please provide your rationale.</i> <i>Please record any general comments below and any specific comments in the section further on in this response form.</i>
We invite you to give your views using the response form in Attachment E

3 Impacts and Costs

Central impacts and costs

CP1469 will require changes to BSCP502, BSCP503 and BSCP514. No central system changes are required and there will be no impact on BSC Agents.

The central implementation costs for CP1469 will be approximately £240 to implement the proposed document changes.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">BSCP502BSCP503BSCP514	None

BSC Party & Party Agent impacts and costs

The proposed changes to BSCP502, BSCP503 and BSCP514 are document only changes but will place new obligations on Suppliers, DSOs, HHDCs, HHDA and HHMOAs.

The DTC changes will require Suppliers, their Supplier Agents³ and DSOs to amend or build their systems appropriately to process new or amended data flows.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
Suppliers	System and process changes will be required to allow Suppliers to process HH and cumulative consumption data from DCC enrolled smart Meters
Supplier Agents	System and process changes will be required to allow Supplier Agents to process HH data from DCC enrolled smart Meters and to implement new Proving Test rules
DSOs	System and process changes will be required to enable DSOs to receive cumulative register readings from Suppliers rather than HHDCs for applicable Metering Systems

³ Supplier 'Agents' could include other service providers that collect and process data from SMETS1 (foundation) Meters such as SMSOs.

CP Consultation Questions

Will CP1469 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 CP1469 and the CP1469 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 CP1469?

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 E

4 Implementation Approach

Recommended Implementation Date

CP1469 is proposed for implementation on **29 June 2017**, as part of the June 2017 BSC Systems Release (which allows for the interaction and lead times for the associated DTC changes and changes to Supplier, DSO and Supplier Agent systems).

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 the Ofgem [‘Elective half-hourly Settlement conclusions paper’](#).

CP Consultation Questions

Do you agree with the proposed implementation approach for CP1469?

Please provide your rationale.

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

SVG's initial views

An SVG member questioned whether using the 'Supplier Validated Flag' to indicate whether or not a Supplier has validated the smart Meter data before sending it to the HHDC is the best approach. They pointed out that this could change on a day-to-day basis. ELEXON acknowledged that in theory this is possible but in practice it is unlikely to be the case. We would expect the Supplier and the HHDC to mutually agree who will be responsible for the on-going validation of data. Whilst it would be possible for them to switch responsibility as often as they might wish to, it wouldn't not be in either of their interests to do so frequently.⁴ ELEXON clarified that the processing steps required include conversion of the data from Wh to kWh and from Universal Coordinated Time (UTC) to clock time.

In response to a query from a committee member, ELEXON confirmed that many cases the 'Supplier' which sources the smart Meter data is actually the SMSO. This could be the HHMOA or any Supplier Agent acting as the SMSO. The SMSO is not a recognised role within the BSC so the data would be deemed as coming from the 'Supplier'.

An SVG member asked if ELEXON expected the new data flow (variants of D0275 and D0036) to actually be used in practice. In their view, using the Data Transfer Network (DTN) was likely to be inconvenient and that instead Suppliers and their agents would internalise these data flows and ultimately produce a D0040 (or D0298) data flow to the Supplier Volume Allocation Agent (SVAA). ELEXON acknowledged that this may be the case but it is appropriate for these changes to be introduced to allow Suppliers to use them if they wish to. ELEXON is aware of certain Suppliers which intend to use these new data flows.

An SVG member asked ELEXON how the new DPPCCs would be derived. ELEXON explained that they will be created by evaluating the existing coefficients for Profile Classes 2 and 4, then adding them into MDD.

An SVG member questioned whether the [D0022 'Estimated Half Hourly Data Report'](#) data flow (which the HHDC sends to the Supplier listing the dates over a period for which HH data has been estimated) would still be necessary if the Supplier was performing the estimation step itself. ELEXON agreed that the D0022 data flow should be optional to avoid inefficiency. As such the draft redlined text for BSCP502 (Attachment B) now includes the word 'optional' in section 3.4.6.8.

⁴ Following the SVG meeting, ELEXON reviewed the proposed redlined text and is content that the drafting allows for either the Supplier or HHDC to perform the validation and estimation processes. We do not believe it is necessary to set out in BSCP502 how often they may change responsibility or a what process they should follow to do so as this is an operational issue between the Supplier and the HHDC and would not ultimately impact Settlement.

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>Industry Code Subsidiary Document</i>)
CP	Change Proposal
CPC	Change Proposal Circular
DCC	Data Communications Company
DPPCC	Default Period Profile Class Coefficient
DSO	Distribution System Operator
DTC	Data Transfer Catalogue (<i>Industry Code Subsidiary Document</i>)
DTN	Data Transfer Network
HH	Half Hourly
HHDA	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector
HHMOA	Half Hourly Meter Operator Agent
MDD	Market Domain Data
SMETS	Smart Metering Equipment Technical Specifications
SMSO	Smart Metering System Operator
SRAG	Settlement Reform Advisory Group (<i>BSC Panel expert group</i>)
SVAA	Supplier Volume Allocation Agent (<i>BSC Agent</i>)
SVG	Supplier Volume Allocation Group (<i>Panel Committee</i>)
UTC	Coordinated Universal Time

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
D0010	Meter Readings
D0022	Estimated Half Hourly Data Report
D0036	Validated Half Hourly Advances for inclusion in Aggregated Supplier Matrix
D0155	Notification of Meter Operator or Data Collector Appointment and Terms
D0269	Market Domain Data Complete Set
D0270	Market Domain Data Incremental Set

DTC Data Flows and Data Items	
Number	Name
D0275	Validated Half Hourly Advances
D0289	Notification of MC/EAC/PC
J0277	Regular Reading Cycle

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, 4	SRAG Report BSC Panel249/13A	https://www.elexon.co.uk/meeting/bsc-panel-249
2	BSCPs on the ELEXON Website	https://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/?show=all
2	Change Proposal CP1464 page	https://www.elexon.co.uk/change-proposal/cp1464/
3	Change Proposal CP1469 page	https://www.elexon.co.uk/change-proposal/cp1469/
6	Ofgem's 'Elective half-hourly Settlement conclusions paper'	https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper