

CP Assessment Report

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

ELEXON



Committee

Supplier Volume Allocation Group

Recommendation

Approve

Implementation Date

29 June 2017 (June 2017 Release)



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About This Document

This document is the Change Proposal (CP) Assessment Report for CP1469 which ELEXON will present to the Supplier Volume Allocation Group (SVG) at its meeting on 4 October 2016. The SVG will consider the proposed solution and the responses received to the CP Consultation before making a decision on whether to approve CP1469.

There are five 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 and the views of respondents to the CP Consultation.
- Attachments A-C contain the proposed redlined changes to deliver the CP1469 solution.
- Attachment D contains the full responses received to the 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). Changes are also required to [BSCP503 'Half Hourly Data Aggregation for SVA Metering Systems registered in SMRS'](#).

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 Class 2 'Domestic Economy 7' and Profile Class 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 DSO.

Another SRAG recommendation was to remove the requirement for Proving Tests 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'](#).



Proving Tests

A Proving Test is a test that determines whether the HH data at the Meter matches the data collected by the HHDC.

CP1464 and DTC CP3492

ELEXON raised [CP1464 'Requiring HH consumption data to be processed to appropriate precision'](#) on 17 May 2016; and Master Registration Agreement (MRA) Data Transfer Catalogue (DTC) [CP3492 'Increasing the precision of data items relating to Half-Hourly \(HH\) Advances'](#) on 26 May 2016, to take forward the recommendation of the SRAG.

DTC CP3492 sought to amend the following data items:

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

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.

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 Distribution System Operators (DSOs). The SVG noted that a revised solution is being progressed as part of CP1469.

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. This 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 DTC changes ([DTC CP 3496 'Changes to support the implementation of the 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.¹ The MRA Development Board (MDB) will consider the DTC CP on 28 September 2016. We will update the SVG verbally on the MDB's decision.

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.

¹ The redlining to BSCP502 may require minor changes depending upon the finalised change to the DTC following consultation. If so, we will advise the SVG at the meeting.

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 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 only 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. Details of the SRAG's recommendations 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 A, B and C contain the proposed changes to BSCP502, BSCP503 and BSCP514 respectively to deliver CP1469.

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 (one ELEXON man day) 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 Agents² 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.

Participant costs

Ten of the 13 respondents to the CP Consultation indicated they would incur costs as a result of this CP. An additional respondent indicated that they haven't had the opportunity to fully assess the impact, but expect any cost to be minimal. The two respondents that indicated they will not face costs were both Suppliers. One other Supplier indicated they

² Supplier 'Agents' could include other service providers that collect and process data from SMETS1 (foundation) Meters such as SMSOs.

would face a cost as a result of putting in place arrangements to send HH data to the HHDC.

The highest costs will be incurred by HHDA and HHDCs. One respondent, who operates as both a HHDC and HHDA, indicated implementation costs equating to approximately 285 man days as well as additional on-going costs. They are not fully able to estimate the on-going costs as this will be dependent on the number of sites moving to HH Settlement and the amount of support that will be required to resolve any unforeseen operational issues. Another HHDC/HHDA indicated they expected implementation of CP1469 to require two man months of effort.

DSOs typically indicated minimal costs.

One Supplier Agent (Smart Metering) indicated they would face 'substantial' costs.

Several respondents commented that is not possible to identify costs incurred specifically as a result of CP1469 from other costs incurred as a result of wider industry changes.

Recommended Implementation Date

CP1469 is proposed for implementation on **29 June 2017**, as part of the June 2017 BSC Systems Release. This will allow for the interaction and lead time for the associated DTC changes to be taken into account, as well as the changes to Supplier, DSO and Supplier Agent systems.

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

Consultation Responses

Of the 13 respondents to the consultation, 10 agreed with the proposed Implementation Date. Two respondents disagreed, one of which indicated that they would require a nine month lead time. However, we note that if CP1469 is approved by the SVG at its meeting on 4 October 2016, this will be nine months in advance of implementation. The other respondent who disagreed suggested that a November 2017 Implementation Date would provide enough time to fully test the solution across the industry.

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. It 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 would not be in either of their interests to do so frequently.³ 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.

ELEXON confirmed that in 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 flows (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. Instead, they believed that 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 A) now includes the word 'optional' in section 3.4.6.8.

³ 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. This is an operational issue between the Supplier and the HHDC and would not ultimately impact Settlement.

6 Industry Views

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

Summary of CP1469 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1469 proposed solution?	11	0	1	1
Do you agree that the draft redlining delivers the intent of CP1469?	9	3	0	1
Will CP1469 impact your organisation?	11	2	0	0
Will your organisation incur any costs in implementing CP1469?	10	2	0	1
Do you agree with the proposed implementation approach for CP1469?	10	2	1	0
Do you have any further comments on CP1469?	6	7	0	0

Impacts in industry participants

Several respondents commented that they will be impacted by the increased size of certain data flows and the need to send and/or receive additional data.

HHDCs and HHDA

The most significant impacts are on HHDCs and HHDA. One respondent commented that there will be a 'major' impact on their HHDC system and 'some' impact on their HHDA systems. Another HHDC/HHDA indicated the impacts would be 'significant'. One respondent indicated that their HHDA activity would be affected by various system and procedural changes but that their HHDA business would only be affected by the creation of the new higher precision data flows.

Suppliers

Two Suppliers indicated no impacts. Another Supplier indicated system changes would be required to accommodate the change to data precision and their billing systems would require the development of new IT functionality. They would also be required to send new data flows such as the D0010.

One respondent commented that they will need new contracts to source HH data.

DSOs

One DSO commented that they would need to change their systems and process in order to receive the revised D0010 data flow. One DSO commented that the impact of receiving

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the D0010 data flow would depend on the frequency that it was sent to them. Another DSO expected the impact of the D0010 data flow to be minimal but was uncertain at this stage.

Role of HHDC

One HHDC raised concerns that Settlement data could be compromised by allowing Suppliers to estimate and validate consumption and export data. They believe there could be a conflict of interest and there is a risk that some Suppliers may deliberately underestimate data. We note that the SRAG also considered this risk during the development of its recommendations. We acknowledge that it is a possibility but the Supplier could also be audited at a point in the future by the BSC Auditor to provide the same level of assurance as HHDCs currently have.

Some respondents queried whether or not the changes made by HHDCs as part of CP1469 would trigger re-Qualification. We do not expect re-Qualification to be necessary but we cannot rule out the possibility that some HHDCs will need to make material changes to their systems.

New D0036 and D0275 variant data flows

Two respondents commented that the new data flows, which will be created based on the D0036 and D0275 data flows but with a higher level of precision, will be more costly to implement than changing the existing data flows. We acknowledge these comments but, on balance, believe that it is better to avoid the problems faced by DSOs in processing the existing data flows with the higher level of precision. This addresses the concerns raised under CP1464 and DTC CP3492. In addition, HHDC and HHDA can make a commercial decision on whether or not to participate in the elective HH market, whereas DSOs would not have this choice.

One HHDC/HHDA indicated that additional guidance on when to use the different level of precision would be helpful. We believe that sufficient guidance is given in the redlining to BSCP502, section 1.2 (Attachment A). This is that where HH data is provided by the Supplier to the nearest Wh, the HHDC shall send the data to the HHDA with the same precision.

One respondent queried if the Supplier Validated Flag was intended to apply to the entire data flow for individual Meters. We can confirm that it is intended to apply to the entire data flow. We will work with our colleagues at the MRA to clarify the description.

J0098 'Retrieval Method' data item

One Supplier raised concerns about the change to data item [J0098 'Retrieval Method'](#) in the D0155 data flow. They believe that this change will impact Suppliers including those which do not choose to settle on a HH basis. They commented that this is contrary to Ofgem's view (in its [open letter](#) of 17 December 2015) that changes should be limited to those who choose to switch to HH Settlement.⁴ The respondent acknowledged that this change is low impact but suggests an alternative approach of creating a new data flow

⁴ Ofgem's subsequent [conclusions paper](#) of 26 May 2016 refers to 'Avoiding, *where possible*, impacts on suppliers who do not choose to settle their customers on a HH basis' [our italics].

with the relevant data items and values. This would follow the same logic that led to new variants of D0036 and D0275 data flows being proposed.

Under CP1464 and DTC CP3492, we allowed the [D0012 'Confirmation of the Inclusion of the Metering Point in the Reading Schedules'](#) data flow to be sent by the Supplier to the HHDC. Due to the negative responses to that, under this proposal we replaced that with the inclusion of new retrieval method.

We recognise that nonetheless one Supplier still believes that it will need to amend its systems, even though it does not intend to participate. However, we believe that if this is the case, then the change should be minimal.

Consideration of D0010 data flow

Some respondents queried whether Suppliers who do not choose to validate and estimate data themselves would need to send the D0010 data flow to the HHDC. The D0010 data flow contains the Meter reading data that can be used for estimating missing data.

We note that the D0010 data flow would be useful for HHDCs for estimating purposes and that a future change may be proposed by a Party to provide this data to the HHDC. In the meantime the HHDC will need to use the data estimation steps which are set out for circumstances where a Meter advance is not available. This approach will result in a similar estimation process as in the existing Non Half Hourly (NHH) market.

Wider context of changes

Several respondents commented that this CP is only part of the wider package of changes across the industry that affects HH business processes. Some respondents said that the impacts and costs of the change were too difficult to separate out from other wider changes. One respondent requested a walkthrough of the whole, wider end-to-end process for Elective Half Hourly Settlement (i.e. considering the full market including agents and smart technical matters).

We acknowledge that the CP is not intended to address all the issues related to elective HH Settlement nor the roll out of smart Meters. Many of the issues highlighted are beyond the scope of the CP. An end-to-end walkthrough would require cross-code support (BSC, MRA, Smart Energy Code). We therefore ask the SVG to confirm whether it wishes us to investigate this with Gemserv, separately to progressing CP1469.

Comments on the proposed redlining

Following the consultation, we have corrected some minor typographical and formatting errors as well as the points listed below. In response to some general comments on clarity we have removed the words 'actual and estimate' from the 'Action' box of 3.4.6.6 of BSCP502. We have also amended BSCP502 3.4.6.7 to now read as 'Validate and estimate consumption data, where required.'

Some suggestions from the consultation respondents were not taken forward as they would be inconsistent with the approach, formatting or style of existing BSCPs. These have not been captured in the table below.

Comments on the CP1469 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
BSCP502 1.4	<p>Section 1.4 states the Suppliers obligation as: 'to validate and estimate data where validation is not being undertaken by the HHDC' – does this imply the Supplier will only estimate data where the Supplier is validating data and if so does this include missing data since this technically hasn't failed validation?</p> <p>This seems to be contradicted in section 3.4.6, maybe for clarity 1.4 should say: 'to validate and estimate data where validation and estimation is not being undertaken by the HHDC'?</p>	Agree. This change has been made.
BSCP502 3.2.1.4	Does the HHDC really need to send a D0012 for such sites, this doesn't make sense to do so.	Agree. Footnote 3 has been amended to clarify.
BSCP502 3.2.1.5	Do we need to add some clarity covering that the HHDC will not be collecting data for all Elective Sites? Currently this implies the HHDC will attempt data collection for all sites?	Agree. The term 'Where appropriate' has been added in the 'When' column.
BSCP502 3.2.1.6	Should a comment be added to clarify that Proving is not required for Elective HH here as well as in Section 4.6?	Agree. The term 'Where appropriate' has been added in the 'When' column.
BSCP502 3.4.3.3	Where a fault remains unresolved and where the Supplier has sent a D0001 to the MOA, should the recipient of a D0005 be Supplier (where Elective) or HHDC (where not) and not just HHDC. However, we note that it is not possible in the current DTC, as there is no MOP to Supplier relationship defined for the D0005. Same comment applies to 3.4.3.6	Agree. The words 'Supplier or' have been added to the 'To' column. The term 'or equivalent information' has been added to the 'Information Required' column for both 3.4.3.3 and 3.4.3.6.
BSCP502 3.4.3.7	HHDC sending update of fault to Supplier –Is this appropriate in the context of elective HH? Maybe the Supplier should be giving the HHDC the update?	Agree. The words 'Supplier or' has been added to the 'From' column. The words 'or HHDC' have been added to the 'To' column.
BSCP502 3.4.6.7	The 'When' box is empty and is ambiguous, could this be clarified.	Agree. The words 'Following 3.4.6.6' have been added to the 'When' column.
BSCP502 3.4.6	The title of 3.4.6 from "HHDC obtains data from the Supplier, processes and sends consumption data for SVA Metering Systems enrolled by the Data Communications Company (DCC)19." Should be changed to "HHDC receives data from the Supplier, processes and sends consumption data for SVA Metering	Agree. This change has been made.

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Comments on the CP1469 Proposed Redlining

Document & Location	Comment	ELEXON's Response
	Systems enrolled by the Data Communications Company (DCC) ¹⁹ . It is the Supplier's responsibility to send the data, this should be reflected in the title.	
BSCP502 4.11	Requirement/no requirement at HHDC for MAR, Mini MAR validations at Supplier sourced consumption data	Disagree. The SRAG concluded that Meter Advance Reconciliation (MAR) is not appropriate. It would be redundant to state this in the BSCP.
BSCP502 4.12	Method 1.e Need to change reference from HHDC to include Supplier, i.e. the Supplier can estimate data using EAC and Profile Class and 1.f also needs reworking?	Agree. References to HHDC have been removed.
BSCP502 4.4	Requesting a Metering Investigation –First paragraph should also include Supplier?	Agree. This change has been made.

7 Recommendations

We invite you to:

- **AGREE** the amendments to the proposed redlining for BSCP502, BSCP503 and BSCP514 for CP1469 made following the CP Consultation;
- **APPROVE** the proposed changes to BSCP502, BSCP503 and BSCP514 for CP1469; and
- **APPROVE** CP1469 for implementation on 29 June 2017 as part of the June 2017 Release.

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 (<i>Industry role</i>)
DPPCC	Default Period Profile Class Coefficient
DSO	Distribution System Operator (<i>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>Party Agent role</i>)
HHDC	Half Hourly Data Collector (<i>Party Agent role</i>)
HHMOA	Half Hourly Meter Operator Agent (<i>Party Agent role</i>)
MAR	Meter Advance Reconciliation
MDB	MRA Development Board (<i>Industry Panel</i>)
MDD	Market Domain Data
MRA	Master Registration Agreement (<i>Industry Code</i>)
SMETS	Smart Metering Equipment Technical Specifications
SMSO	Smart Metering System Operator (<i>Industry role</i>)
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
D0012	Confirmation of the Inclusion of the Metering Point in the Reading Schedules

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DTC Data Flows and Data Items	
Number	Name
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
D0275	Validated Half Hourly Advances
D0289	Notification of MC/EAC/PC
J0021	Meter Period Value
J0098	Retrieval Method
J0177	Period Metered Consumption
J0277	Regular Reading Cycle
J0281	Total kWh (and kVArh) of Estimate 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, 4	SRAG Report BSC Panel249/13A	https://www.elexon.co.uk/meeting/bsc-panel-249
2	CP1464 page on the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1464/
2	DTC CP3492 page on the MRASCo website	https://mra.mrasco.com/change/increasing-the-precision-of-data-items-relating-to-hh-advances/
2	SVG 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/
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4	CP1469 page on the ELEXON website	https://www.elexon.co.uk/change-proposal/cp1469/
4	DTC CP3496 page on the MRASCo website	https://mra.mrasco.com/change/changes-to-support-the-implementation-of-the-srag-recommendations/
8	Ofgem's 'Elective half-hourly Settlement conclusions paper'	https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper

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