

# CP Assessment Report

## CP1474 'Updating the CoMC processes to facilitate the elective HH Settlement of SMETS Meters'

**ELEXON**



### Committee

Performance Assurance Board / Supplier Volume Allocation Group / Imbalance Settlement Group

### Recommendation

Approve

### Implementation Date

29 June 2017 (June 2017 Release)

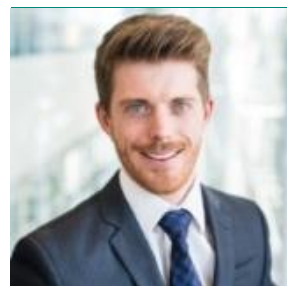


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### About This Document

This document is the Change Proposal (CP) Assessment Report for CP1474 which ELEXON will present to the Performance Assurance Board (PAB) and the Supplier Volume Allocation Group (SVG) at their meetings on 15 December 2016 and 3 January 2017 respectively. The Imbalance Settlement Group will make a decision on CP1474 ex-committee on 4 January 2017. The PAB, SVG and ISG will consider the proposed solution and the responses received to the CP Consultation before making a decision on whether to approve CP1474.

This paper is being presented to multiple committees because some of the impacted BSC Procedures (BSCPs) are jointly owned. Further detail of each committee's ownership of BSCPs is covered in the 'Proposed redlining' section of this document, under section 2 'Solution'.

There are 11 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 PAB, SVG and ISG's initial views on the proposed changes and the views of respondents to the CP Consultation.
- Attachment A contains the CP1474 proposal form.
- Attachments B to H contain the proposed redlined changes to deliver the CP1474 solution.
- Attachment I contains process flow diagrams for the new Change of Measurement Class (CoMC) processes. Please note that these are to aid understanding of the

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overall processes and should only be viewed in conjunction with the BSCP redlining.

- Attachment J contains the full responses received to the CP Consultation.



## SMETS1 vs SMETS2

SMETS1 is the minimum standard a foundation smart Meter must meet to be eligible for adoption by the DCC. SMETS2 Meters are enrolled in the DCC from installation. The main difference between SMETS1 and SMETS2 Meters is the security model they use and their communication method.

## Background

Ofgem published its '[Elective half-hourly settlement: conclusions paper](#)' on 26 May 2016. One of the priority areas identified was CoMC for smart Meters. The conclusions paper notes that improving the current CoMC processes will make it cheaper and faster for domestic and smaller non-domestic customers to electively switch to Half Hourly (HH) Settlement.

Ofgem asked ELEXON and the Master Registration Agreement Service Company (MRASCo) to convene a cross Code working group, to look into the CoMC changes needed to facilitate elective HH Settlement of smart Meters. These changes will apply to:

- Meters that comply with version one of the Smart Metering Equipment Technical Specifications ([SMETS1](#)), whether enrolled by the Data Communications Company (DCC) or not; and
- Meters that comply with version two ([SMETS2](#)) and higher versions.

ELEXON formed a cross Code working group called the [Change of Measurement Class for Smart Meters Working Group](#) (CSMWG), to discuss these changes and develop a solution.

## CSMWG discussions

The CSMWG identified that the [D0268 'Half Hourly Meter Technical Details'](#) data flow is not suitable for HH Metering Systems with smart Meters. This is because the majority of data items on the D0268 data flow are not relevant for smart Meters (e.g. passwords, communication details and attributes only relevant to complex metering). The CSMWG considered two options in detail for elective HH Metering Systems, with both approaches creating new CoMC processes.

- **Option one** – produce a new Meter Technical Details (MTDs) data flow for Meter Operator Agent (MOA)-to-MOA transfers for elective HH Metering Systems with smart Meters.
- **Option two** – retain a Non Half Hourly Meter Operator Agent (NHHMOA) for elective HH Metering Systems with smart Meters. With this option, the [D0150 'Non Half-hourly Meter Technical Details'](#) data flow is used when the Meter is HH.

The proposed MTD data flow developed under the first option was closer to the D0150 data flow than the D0268 data flow. The only key difference was that the smart MTD data flow would not need to include Register details for HH Metering Systems. However, the CSMWG concluded that it would facilitate movement between HH and Non Half Hourly (NHH) if the Register mappings were maintained, as an elective HH Supplier may still want to configure the Time of Use Registers to present data to the consumer. As such, the CSMWG opted to progress the second option and concluded that the D0150 data flow represented the best option for smart Meters (compared to the D0268 data flow or a new data flow). Continuing to use the NHHMOA to maintain the D0150 data flow represented less impact than requiring HH Meter Operator Agents (HHMOAs) to process a D0150 data flow. Option two also results in minimal change for those Supplier and Supplier Agents who do not wish to participate in elective HH Settlement. This is because if a non-participating Supplier gains an elective HH Meter, there is already a NHHMOA appointed and a D0150 data flow. Therefore, the reverse CoMC (HH to NHH) is more streamlined

than the first option. The group also concluded that the Half Hourly Data Collector (HHDC) would not need to receive MTDs, because the Supplier will be reading the Meter and no MTDs are needed for validation.

## What is the issue?

The existing CoMC processes are not appropriate for smart Meters where the Supplier is responsible for configuring and collecting data from the Meter. The existing processes focus on two scenarios:

- where a physical change of the Metering System is required to facilitate the CoMC, which requires a site visit; and
- where an advanced Meter is installed, requiring an exchange of communication and password details.

Smart Meters can collect both HH and NHH data. Therefore, on a CoMC for a smart Meter, the Supplier (or the Supplier's service provider) will only need to stop collecting meter register readings and start collecting HH Metered Data (or vice versa). As the Supplier, rather than the HHDC, retrieves data from smart Meters, the HHDC does not require MTDs. In addition, the existing D0268 data flow used for HH Metering Systems is not appropriate for smart Meters.



### HHDC-serviced Metering System

A 'HHDC-serviced Metering System' is a Metering System where the HHDC is responsible for collecting data directly from the Metering System.



### Supplier-serviced Metering System

A 'Supplier-serviced Metering System' is a Metering System where the Supplier obtains data from a SMETS compliant Meter, either directly or using a service provider.

## Proposed solution

[CP1474 'Updating the CoMC processes to facilitate the elective HH Settlement of SMETS Meters'](#) was raised by ELEXON on 14 October 2016, to progress the solution developed by the CSMWG.

This CP proposes to amend the CoMC processes for Metering Systems with smart Meters moved to elective HH Settlement, as per the option recommended by the CSMWG. The key changes are that:

- the NHHMOA will remain appointed when the Meter is settled HH; and
- steps for a Meter exchange are removed.

The Supplier will record the MOA as HH in the Supplier Meter Registration Service (SMRS)<sup>1</sup>, but will retain the services of the NHHMOA operationally. The NHHMOA data flows ([D0149 'Notification of Mapping Details'](#) / D0150) will be used during the CoMC processes and whilst the Metering System is settled HH.

This change also introduces new terms to differentiate between the existing and the new CoMC processes introduced by this CP. These terms are:

- 'HHDC-serviced Metering System' for the existing CoMC processes which apply to non-SMETS Meters; and
- 'Supplier-serviced Metering System' for the new CoMC processes (introduced by this CP) which apply to SMETS Meters.

To implement these changes, revisions are required to seven BSCPs. A high-level summary of the required changes to each BSCP is outlined below:

- [BSCP501 'Supplier Meter Registration Service'](#):
  - introduction of the term 'Supplier-serviced Metering System' into the BSCP; and
  - additional footnote that provides guidance for the Supplier to record the MOA as HH in the SMRS via the [D0055 'Registration of Supplier to Specified Metering Point'](#) and [D0205 'Update Registration Details'](#) for a Supplier-serviced Metering System when the Meter is settled HH, although the Supplier will retain the services of the NHHMOA.
- [BSCP502 'Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#):
  - introduction of the terms 'HHDC-serviced Metering System' and 'Supplier-serviced Metering System' into the BSCP;
  - changes to the naming of the existing CoMC processes (for non-SMETS Meters) to note they are for HHDC-serviced Metering Systems;
  - changes to highlight process steps that do not apply for Supplier-serviced Metering Systems;

<sup>1</sup> The Supplier will record the MOA as HH in the SMRS by setting the 'MOA Type' as 'H' in the D0055 'Registration of Supplier to Specified Metering Point' / D0205 'Update Registration Details'.

- changes to make sending the [D0302 'Notification of Customer Details'](#) optional for Supplier-serviced Metering Systems;
  - additional process for the current Supplier to collect the final Meter reading on a Change of Supplier (CoS) for Supplier-serviced Metering Systems; and
  - new CoMC processes for Supplier-serviced Metering Systems for NHH to HH and for HH to NHH, and in both cases for coincident / non-coincident with a CoS.
- [BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'](#):
    - introduction of the terms 'HHDC-serviced Metering System' and 'Supplier-serviced Metering System' into the BSCP;
    - changes to the naming of the existing CoMC processes (for non-SMETS Meters) to note they are for HHDC-serviced Metering Systems; and
    - new CoMC processes for Supplier-serviced Metering Systems for NHH to HH and for HH to NHH, and in both cases for coincident / non-coincident with a CoS.
- [BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'](#):
    - introduction of the terms 'HHDC-serviced Metering System' and 'Supplier-serviced Metering System' into the BSCP;
    - changes to the naming of the existing CoMC processes (for non-SMETS Meters) to note they are for HHDC-serviced Metering Systems;
    - changes to highlight process steps that do not apply for Supplier-serviced Metering Systems;
    - changes to make the sending of the D0302 optional for Supplier-serviced Metering Systems;
    - new CoMC processes for Supplier-serviced Metering Systems for NHH to HH and for HH to NHH, and in both cases for coincident / non-coincident with a CoS;
    - optional processes for sending the D0302, [D0215 'Provision of Site Technical Details'](#), [D0303 'Notification of Meter Operator, Supplier and Metering Assets installed / removed by the MOP to the MAP'](#) and [D0312 'Notification of Meter Information to ECOES'](#) (unless changes to content);
    - changes to apply NHH timescales to elective HH Metering Systems for MOA activities such as Meter exchanges; and
    - other changes to reflect the Supplier rather than MOA reading and configuring Meters.
  - [BSCP533 'Appendix B: PARMs Calculation Guidelines'](#):
    - introduction of the term 'Supplier-serviced Metering System' into the Appendix; and

- notes added to Performance Assurance Reporting and Monitoring System (PARMS) Serials HM11 'Timely Sending of HH MTDs to HHDCs' and HM12 'Missing HH MTDs' that when a [D0155 'Notification of Meter Operator or Data collector Appointment and Terms'](#) is received with a Retrieval Method of 'S'<sup>2</sup>, it should be excluded from reporting.
- [BSCP537 'Appendix 1 Self Assessment Document \(SAD\)'](#):
  - Introduction of the terms 'HHDC-serviced Metering System' and 'Supplier-serviced Metering System' into the Appendix;
  - changes to Section 9 'HHDC' to identify different process requirements between HHDC-serviced Metering Systems and Supplier-serviced Metering Systems;
  - changes to Section 13 'SVA HHMOA' to identify that they are responsible for HHDC-serviced Metering Systems; and
  - changes to Section 14 'SVA NHHMOA' to identify that they are also responsible for Supplier-serviced Metering Systems (in addition to NHH Metering Systems).
- [BSCP537 'Appendix 2 Testing Requirements'](#):
  - introduction of the new DXXXX and DYYYY data flows (introduced by [DTC CP 3496 'Changes to support the implementation of the SRAG recommendations'](#)) into the Appendix.



## 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.

## Related Changes

There are a number of other industry changes that also seek to facilitate elective HH Settlement. The table below summarises the current stage of the existing BSC and Master Registration Agreement (MRA) changes which aim to facilitate elective HH Settlement. These changes were raised following recommendations from Ofgem and the Settlement Reform Advisory Group (SRAG).

Related changes		
Change	Change title	Summary
<a href="#">CP1469</a>	Changes to support the implementation of the SRAG's recommendations.	The SVG approved CP1469 on 4 October 2016 ( <a href="#">SVG188</a> ) for implementation on 29 June 2017.
<a href="#">DTC CP 3496</a>	Changes to support the implementation of the SRAG recommendations.	Data Transfer Catalogue (DTC) CP 3496 is a related DTC change to facilitate CP1469. The MRA Development Board (MDB) approved DTC CP 3496 on 22 September 2016 for implementation on 29 June 2017.
<a href="#">CP1466</a>	Removing SMETS compliant Meters from the scope of BSCP601.	The Panel approved CP1466 on 8 December 2016 ( <a href="#">Panel 261</a> ) for implementation on 23 February 2017.

<sup>2</sup> DTC CP 3496 introduces a new Retrieval Method 'S' to indicate that the Supplier, rather than the HHDC, is responsible for retrieving HH Metered Data. D0268 data flows are not expected to be sent for these Metering Systems.

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Related changes		
Change	Change title	Summary
<a href="#">CP1475</a>	Remove obligation to re-date final NHH Meter readings on CoMC	CP1475 was issued for Consultation on 7 November 2016 with responses due by 2 December 2016. CP1475 will be presented to the SVG for decision on 3 January 2017 ( <a href="#">SVG191</a> ).

## Interaction of CP1474 and CP1469

CP1474 and CP1469 work together to deliver new processes for the elective HH Settlement of smart Meters. CP1474 proposes to create new CoMC processes for smart Meters. CP1469 introduces new processes for the collection of HH smart Meter data following the CoMC to HH. CP1474 and CP1469 work independently of each other to provide a revised end to end process for the elective HH Settlement of Metering Systems with smart Meters. In the event that CP1474 was not approved, the CP1469 processes could still be operated. However, the transition from NHH to HH (and any subsequent transition from HH to NHH) would need to follow the existing CoMC process. This would require the use of workarounds because the D0268 cannot be fully populated for smart Meters.

## Proposer's rationale

The proposed changes create new CoMC processes for smart Meters, and streamline the processes. In the new processes there will be no need to change the MOA<sup>1</sup> (it remains NHH) when a smart Meter moves to elective HH Settlement. This streamlines the process for a reverse CoMC (HH to NHH), as a NHHMOA is already appointed. As a NHHMOA is appointed, it is also possible to use existing NHH data flows (D0149 / D0150) and avoids the need to switch to HH MTDs when the Meter is elective HH. Using existing data flows means minimal system changes required for Suppliers or Supplier Agents. These changes will remove barriers to the elective HH Settlement of smart Meters. Ofgem is keen to remove these barriers by early 2017.

## Proposed redlining

Attachments B to H contain the proposed changes to BSCP501, BSCP502, BSCP504, BSCP514, BSCP533 Appendix B, BSCP537 Appendix 1 and BSCP537 Appendix 2 respectively to deliver CP1474.

We are presenting CP1474 to the ISG, PAB and SVG for decision because some of the BSCPs impacted by this change are jointly owned. The ownership of the BSCPs under the BSC Baseline Statement is as follows:

- BSCP501, BSCP502, BSCP504 and BSCP514 – SVG
- BSCP533 Appendix B – SVG and PAB
- BSCP537 Appendix 1 and BSCP537 Appendix 2 – SVG, ISG and PAB

The PAB has joint ownership of BSCP533 Appendix B because PARMS data is used primarily to support the Performance Monitoring and Reporting technique, which is part of



ELEXON's Performance Assurance Framework. PARMS data is also used in the Peer Comparison and Supplier Charges techniques and in reports to the PAB.

The PAB has joint ownership of BSCP537 Appendix 1 and BSCP537 Appendix 2 because the PAB is responsible for the Supplier Volume Allocation (SVA) Qualification Performance Assurance Technique.

### 3 Impacts and Costs

#### Central impacts and costs

CP1474 will require changes to BSCP501, BSCP502, BSCP504, BSCP514, BSCP533 Appendix B, BSCP537 Appendix 1 and BSCP537 Appendix 2. No central system changes are required and there will be no impact on BSC Agents.

The central implementation costs for CP1474 will be approximately £240 (one ELEXON working day) to implement the document changes.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none"><li>• BSCP501</li><li>• BSCP502</li><li>• BSCP504</li><li>• BSCP514</li><li>• BSCP533 Appendix B</li><li>• BSCP537 Appendix 1</li><li>• BSCP537 Appendix 2</li></ul>	<i>None</i>

#### BSC Party & Party Agent impacts and costs

The changes proposed by CP1474 are document changes only. We believe this change will impact Suppliers, NHHMOAs, HHMOAs, HHDCs and NHH Data Collectors (NHHDCs).

The proposed solution aims to have minimal impacts on Parties not participating in the elective HH market. More information can be found in the 'CSMWG discussions' section of this document, under section 1 'Why change?'.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
Supplier	<ul style="list-style-type: none"><li>• Creation of new internal processes for smart CoMC</li></ul>
NHHMOA	<ul style="list-style-type: none"><li>• Creation of new internal processes for smart CoMC</li></ul>
HHMOA	<ul style="list-style-type: none"><li>• Where an MOA uses the same Market Participant Id (MPID) for its NHHMOA and HHMOA, a D0155 with a Retrieval Method of 'S' should be routed to the NHHMOA system (where different). This could have a minor impact on the HHMOA system.</li></ul>
NHHDC	<ul style="list-style-type: none"><li>• Clarification of application of existing CoMC process to smart Meters</li></ul>
HHDC	<ul style="list-style-type: none"><li>• Creation of new internal processes for smart CoMC</li><li>• Update PARMS software that creates HM11 and HM12 Serials to take into account D0155s with a Retrieval Method of 'S'</li></ul>

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All nine respondents to the CP Consultation indicated that CP1474 will impact their organisations, due to the required system changes. One respondent noted CP1474 will also have a positive impact, by providing a suitable process for CoMC for SMETS Meters. Two respondents noted that the full scope of their system changes would be determined through their own internal impact assessments, should the CP be implemented.

One respondent noted that if acting as a non-participating Supplier, their CoS registration processes would be similar, with some changes to their smart gain process. They would also require a small change to the end of their registration process to notify Meter Point Administration Service of the CoMC from HH to NHH where appropriate. The respondent noted that if actively participating in the elective HH process as a Supplier, the changes would be significant as part of the end-to-end elective HH Settlement process.

One respondent noted that as a MOA, it would not anticipate any large changes to its MOA systems. However, two other HHMOAs noted significant system changes. One of these respondents noted that its systems are partitioned based on the market the site operates in. Therefore, the change could be potentially complex. The other of these respondents noted that from an HHMOA perspective, its HH systems do not support SMETS Meter types. ELEXON has contacted these respondents to understand the impacts, as the CP was designed to minimise impacts on non-participating parties. Therefore, it shouldn't be necessary for an HHMOA system to support a SMETS Meter. At the time of writing, ELEXON has not received further information from either respondent.

All nine respondents also identified costs associated with implementing CP1474 related to the system changes. The respondents also outlined the potential on-going cost of the solution, as well as the potential cost of resolving any consequential impacts that have not been identified. One respondent noted that dependant on the take up of elective HH, there could be a cost to requalify HHDC / HH Data Aggregator systems for an increased number of HH appointments.

You can find the full responses received to the CP Consultation in Attachment J.

### Recommended Implementation Date

CP1474 is proposed for implementation on **29 June 2017** as part of the June 2017 BSC Systems Release.

The Implementation Date is proposed to align with the process changes for CP1469 and the availability of amended and new data flows that will be created by DTC CP 3496.

This Implementation Date also meets Ofgem's target date for removing barriers to elective HH Settlement by early 2017, as set out in the Ofgem '[Elective half-hourly Settlement: conclusions paper](#)'. Six of the nine respondents to the CP Consultation agreed with the proposed implementation approach.

One respondent noted their support for Ofgem's target date to remove barriers to elective HH Settlement. Another respondent supported the Implementation Date but believed it would be challenging. However, the respondent noted the importance of CP1474 for non-participating parties who wish to carry out a reverse CoMC to NHH. Another respondent noted the Implementation Date would be challenging, but they believed it would be achievable provided that any other changes that impact HHDC / HHDAs are scheduled for a later Implementation Date.

One respondent believed that the uptake of SMETS in June would be low, and believed that November 2017 would be a better Implementation Date. However, ELEXON notes that at least one Supplier has shared its intention to carry out elective HH Settlement with SMETS Meters in the short term. Without CP1474, the changes implemented by CP1469 would require a workaround to use the existing CoMC processes for elective HH. This would have a negative impact on any Suppliers gaining elective HH Metering Systems that they wished to revert to NHH.

### ISG's initial views

The ISG considered CP1474 at its meeting on 25 October 2016 ([ISG186/05](#)).

An ISG Member queried why the D0215 data flow from Distributor to MOA is optional in the new CoMC processes. The ISG Member noted that for a NHH to HH CoMC, Distributors would have limited information on the D0215 data flow. The ISG Member expressed concerns that CP1474 is introducing an obligation into BSCP514 that Distributors cannot deliver to MOAs. ELEXON noted that this issue was raised in the CSMWG. However, the CSMWG agreed to keep the sending of the D0215 data from Distributor to MOA, but to make it optional. ELEXON noted that some participants make use of the D0215.

An ISG Member noted there is an assumption that all SMETS compliant Meters can be reconfigured remotely. The ISG Member queried if this assumption was accurate. ELEXON responded that SMETS Meters are required to record 13 months of HH import and six months of HH export data. Therefore, the Supplier only needs to send a service request to the Meter via the DCC for the HH data. ELEXON noted that there is no reconfiguration required to access HH data. ELEXON noted that the data retriever, or DCC, will be able to communicate with the Meter following the CoMC to obtain HH data.

### PAB's initial views

The PAB considered CP1474 at its meeting on 27 October 2016 ([PAB189/08](#)).

A PAB Member queried if any of the changes introduced by CP1474 interact with the changes introduced by CP1469. Another PAB Member noted that the changes introduced by CP1469 impact the processes following the completion of the CoMC. Therefore, there is no interaction between CP1474 and CP1469.

A PAB Member asked for clarity on their understanding that the Supplier would collect HH Meter readings and the MOA is recorded as a NHHMOA. ELEXON noted that the appointed MOA would use its NHHMOA MPID but the Meter Type would be set to 'H' for HH. A PAB Member queried if this meant that all NHHMOAs would need to be setup in Market Domain Data (MDD). ELEXON noted that while not all NHHMOAs have HHMOA equivalents, all HHMOAs do have an NHHMOA equivalent. Following the meeting, ELEXON notes that MDD does not distinguish between NHH and HH MOAs. Within MDD, all MOAs are assigned a Market Participant Role Code of 'M' for Meter Operator.

A PAB Member queried if NHHMOAs appointed as part of this process would need to be HH accredited. ELEXON noted that this would not be the case. ELEXON noted that this was on the basis that it is the same Meter installed on site. Therefore, the NHHMOA is responsible for the same physical Meter when the Meter is settled HH. ELEXON added that the NHHMOA might not know when the Meter is settled HH.

## SVG's initial views

The SVG considered CP1474 at its meeting on 1 November 2016 ([SVG189/06](#)).

An SVG Member queried if CP1474 had any dependencies on DTC changes. ELEXON confirmed that there were no DTC changes required by CP1474. However, ELEXON noted that the redlining references two new data flows introduced by approved DTC CP 3496, for which no flow numbers have yet been allocated.

An SVG Member noted that the Implementation Date was being driven by Ofgem's aspirations, rather than participants' required lead times. The SVG agreed that the consultation would draw out participants' views on the achievability of the Implementation Date.

An SVG Member noted that if the NHHMOA does not send MTDs to the HHDC, this may lead the HHDC to misinterpret the process. ELEXON noted that the HHDC will be notified if it is a Supplier-serviced Metering System on appointment<sup>2</sup>. As the HHDC knows it is a Supplier-serviced Metering System, they will not be expecting MTDs. The SVG Member queried how the HHDC will validate data without MTDs. ELEXON noted that the only validation is a maximum permissible energy check, and MTDs are not required for this.

An SVG Member queried if the CSMWG identified any impacts on parties not participating in elective HH Settlement. ELEXON noted that the CSMWG discussed this at length. ELEXON noted that the CSMWG initially looked at creating new MTDs for MOA-to-MOA transfer for elective HH smart Meters. However, this option would have had impacts on non-participating parties. ELEXON noted that the CSMWG opted to progress the option of keeping a NHHMOA appointed as this would have minimal impacts on non-participating parties.

## 6 Industry Views

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

Summary of CP1474 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1474 proposed solution?	7	1	0	1
Do you agree that the draft redlining delivers the intent of CP1474?	5	3	1	0
Will CP1474 impact your organisation?	9	0	0	0
Will your organisation incur any costs in implementing CP1474?	9	0	0	0
Do you agree with the proposed implementation approach for CP1474?	6	3	0	0
Do you have any further comments on CP1474?	4	5	n/a	n/a

### Comments on the CP

In response to the CP Consultation, eight of the nine respondents agreed with CP1474, one of those with caveats. The respondents noted that the solution simplifies the existing CoMC process for elective HH sites, as well as ensuring minimal change for Parties who do not wish to participate in elective HH Settlement.

Of the eight respondents who supported CP1474, one respondent highlighted the concern that should few or no Suppliers participate in elective HH Settlement, then the costs to implement the CoMC processes, and other elective HH Settlement processes, will lead to unnecessary industry costs. These costs may be passed back onto the customer. However, they noted that if elective HH Settlement is to be progressed, CP1474 is the most appropriate method for the CoMC.

The respondent that did not agree with CP1474 noted that its HHMOA system does not support the Meter type involved. ELEXON has contacted the respondent, as the intention of CP1474 was for a NHHMOA to remain appointed when the Meter is HH. At the time of writing, ELEXON has not received further information from the respondent.

The respondent that agreed with CP1474, but with caveats, outlined four concerns with the proposed process. The respondent disagreed with the approach of recording that the Meter Operator type as "HH" in SMRS, as in reality the MOA is the same NHH agent as before the CoMC, and will be retaining NHH obligations. The respondent suggested that the process should be legitimised at industry level by allowing a Supplier to register a NHHMOA against a Metering System ID, which has a SMETS Meter and is settled HH. ELEXON notes that the CSMWG adopted this approach for pragmatic reasons. A change to the Meter Point Registration System validation rules would have delayed the Implementation Date beyond June 2017. ELEXON also noted that from an MOA perspective, there is no real distinction between NHH and HH for a SMETS Meter. Therefore, it is arguably no more accurate to record a MOA type as NHH rather than HH.

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Secondly, the respondent indicated that they were not convinced that the HHDC will not need the MTDs. The respondent noted that currently, on receipt of a D0268, their HHDC system uses this information to build a Meter into its admin system. This includes populating which physical channels are present in the Meter and against which channel the Measurement Quantity IDs are registered. The respondent queried how HHDC would populate the channels that they expect to receive data against, if they do not receive MTDs. ELEXON notes that for SMETS Meters, the Supplier will send HH consumption data to the HHDC and the Measurement Quantity. The HHDC won't need to know anything about the physical channels. ELEXON notes the HHDC system may need to be modified to expect either Active Import or Active Export data for elective HH Metering Systems, without the need to record physical channel numbers.

Thirdly, the respondent noted that HHDCs may be required to validate consumption data. The respondent noted that without a D0150 / D0149, the HHDC won't be able to validate data. Therefore, the respondent believed it should be a requirement for HHDCs to receive D0150 / D0149s. ELEXON notes that the validation requirements for elective HH were approved as part of CP1469. The only validation check required is that the HH values don't exceed the Maximum Permissible Energy value, as set out in BSCP502. The HHDC doesn't need the MTD to carry this out.

Finally, the respondent noted that in the view of the NHHMOA appointed, the NHHDC is never de-appointed. This means that for any metering activity the MOA will continue to send information flows to a NHHDC which has been de-appointed. ELEXON notes that this will only be an issue if the MOA is required while the Metering System is elective HH (e.g. a change of Meter). In these cases, if the MOA sends a D0150 / D0149 to the NHHDC, the NHHDC could reject the unwanted MTD.

## Comments on the proposed redlining

Five of the nine respondents to the CP Consultation agreed that the draft redlining delivers the CP1474 proposed solution. However, one of these respondents also suggested some minor modifications to the redlining.

One respondent remained neutral on the proposed redlining, but did make some comments to the proposed changes to BSCP502. The respondent noted that documenting the Supplier as the HH data provider makes BSCP502 unwieldy. They noted that previously, processes for data retrievers and site visit agents have needed no additional documentation. ELEXON notes that data retrieval is part of the Data Collector function, and sub-contracted. However, this is different with the Supplier retrieving the data. This is a new role for Suppliers, and a reduction in the scope of the HHDC role. Therefore, data retrieval requirements need to be more explicit than they have been previously.

Three of the nine respondents did not support the draft redlining. One of these respondents did not agree with the CP1474 proposed solution, and did not make any comments on the redlining. The other two respondents did agree with the proposed solution, but did not agree with the draft redlining. These respondents made a number of comments on the proposed redlining.

ELEXON notes that the proposed changes to the redlining are clarifications, corrections to typographical errors and improvements to the consistency of working between the different sections of the BSCPs. ELEXON's responses to these comments are outlined in the table below.



## Comments on the CP1474 Proposed Redlining

Document & Location	Comment	ELEXON's Response
BSCP502 3.2.1	Why isn't the D0011 or D0261 mentioned here	<p>When BSCP502 was first drafted, the D0011 and D0261 were excluded. This was because the D0011 and D0261 were seen as contractual flows that did not alter the Settlement obligation to ensure that agents were appointed for all relevant Settlement Dates. The industry working group that first developed BSCP514 (a later BSCP) took a different view and thought that the flow requirements should represent industry practice, rather than adopting the 'purist' view taken for BSCP502.</p> <p>There are no references to the D0011 or D0261 anywhere in BSCP502. Whilst there would be no harm in adding them, this change would need to be applied to the whole BSCP. To include them in the smart CoMC process alone would create an inconsistency with the rest of the document.</p>
BSCP502 3.2.3	Why isn't the D0011 or D0261 mentioned here	See above.
BSCP502 3.2.3	<p>The BSCP appears to be inconsistently dealing with the sending of the D0012 to the Supplier.</p> <p>In most business processes the DC does not send a D0012 where the mpan is supplier –served. However in Change of Supplier only the sending of the D0012 is optional.</p> <p>Could it be confirmed what the definition of 'optional ' is in the sending of the D0012 in section 3.2.3.</p> <p>Is it optional in the sense that it is up to the HHDC/Supplier as whether they send the D0012 for a Supplier Served MPAN? Rather than optional due to a particular set of circumstances.</p>	<p>There is no need for the HHDC to send a D0012, unless the New Supplier asks to receive them.</p>

Comments on the CP1474 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
BSCP502 3.2.4.2	Why isn't the D0261 mentioned here	See above.
BSCP502 3.2.4.15 and 3.2.4.16	<p>This step has only partially been thought through.</p> <p>Where the Supplier has chosen to perform validation and estimation, this step is not required at all.</p> <p>If the HHDC is performing the estimation on behalf of the Supplier it implies the old HHDC has to provide historic data via the new data flow, this can only be true on the assumption that the site was also an Elective one under the old HHDC. So, should the site have previously been (say) a Profile Class 5 to 8, then the old HHDC should not be bound to provide historic data. Since, in such a case, the old HHDC would not have data available in this format.</p>	<p>3.2.4.15 and 3.2.4.16 are part of the Change of HHDC process. The assumption is that the Metering System was also elective HH when the old HHDC was appointed. If the site were previously in Profile Class 5 to 8, the old HHDC would only hold HH data for the period during which the Metering System was settled HH and would only be required to transfer history for that period.</p> <p>If the Supplier has notified the HHDC that it will perform validation and estimation, the new NHHDC would not need to request the history. Will add 'As required and ...' to 3.2.4.15.</p>
BSCP502 3.3.4	Assume that the use of the term SMETS meter is identical to the term supplier serviced. Why does this section have a different format if this assumption is correct?	Agreed. 'For SMETS-compliant Meters' could be changed to 'For Supplier-serviced Metering Systems'.
BSCP502 3.3.9.2	As per CP1472, is this still true?	Section 3.3.9.2 only applies to multi-feeder sites, so has not been amended as part of CP1474. The CP1472 rules will apply.
BSCP502 3.3.10	Does this need to be split into HHDC serviced and Supplier serviced, this implies the HHDC always collects data when feeders are de-energised	3.3.10 only applies to multi-feeder sites. De-energised single-feeder sites are covered by 3.3.4.
BSCP502 3.3.11	What is the point of footnote 24? Where there is a COMC only, we would follow section 3.3.12. In footnote 25, we assume the supply start date is the effective date?	<p>Footnote 24 is carried forward from the non-smart CoMC process, which originally applied with and without a concurrent Change of Supplier. Agree that it doesn't apply to 3.3.11 and should be deleted.</p> <p>Yes, effective date of the HHDC should be the same as the supply start date. The footnote adds no</p>

Comments on the CP1474 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
		value and will be removed.
BSCP502 3.3.13	The title should read 'Change of Supplier for Supplier-Serviced Metering System'	Agreed.
BSCP502 3.3.13	Heading is wrong? Should be 'Coincident Change of Measurement Class from HH to NHH and Change of Supplier for Supplier-serviced Metering Systems'?	Agreed. As above.
BSCP502 3.3.15.2	We believe this section should read 'prior to replacement / reconfiguration' for consistency with other similar sections.	Agreed.
BSCP502 3.4.1	Should the heading not make specific reference to HHDC serviced MS?	The title of 3.4.1 has been changed, as part of approved CP1469, to refer to 'SVA Metering Systems where Half Hourly data is not sourced by the Supplier'.
BSCP502 3.4.2 – HHDC investigates inconsistencies	<p>Please could the situation in which a D0235 is sent by the DA to the DC containing a Supplier-serviced MPAN be clarified?</p> <p>The situation may arise in which no MS investigation is required. In this situation the BSCP states that a D0036 should be sent to the HHDA. This would mean an incorrect precision is provided and is inconsistent as the DXXXX is expected for a Supplier-serviced MPAN.</p> <p>Alternatively, if a MS investigation is not required, the drafting of BSCP502 eventually suggests following Section 3.4. This is a little confusing because this is section 3.4.</p> <p>The expectation was that where there is an HHDC investigation the process differs dependent on whether the MPAN is Supplier-serviced or HHDC serviced.</p>	<p>Agreed. A reference to the DXXXX should be included alongside the D0036.</p> <p>3.4.3.13 should refer to 'HHDC or Supplier' and 3.4.3.14 should reference '3.4.1 or 3.4.6 as appropriate'.</p> <p>As noted, the HHDC can check whether a DXXXX flow has been sent to the HHDA, if necessary. Otherwise, the Supplier and HHDC will have pre-agreed who is validating and estimating. The D0235 is sent to both the Supplier and HHDC, so correction of D0235 exceptions should align with the original collection responsibilities. ELEXON will update the guidance note on 'Exception Reporting in the Half Hourly Market'.</p>

Comments on the CP1474 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
	<p>If Supplier-Serviced, the HHDC should consider if it can resolve the issue (for example, it may have been a drop out when compiling the DXXXX to the HHDA) and if it can should send a DXXXX to the HHDA. If the HHDC cannot resolve the issue then the HHDC should inform the Supplier (how?) and the Supplier should carry out the investigation leading to a new DXXXX being sent to the HHDC.</p> <p>If HHDC-Serviced we would expect the process to continue as currently with the HHDC liaising, where necessary, with the MOP to resolve ending up with a D0036.</p>	
BSCP502 3.5	Should the Proving Test section reference that Proving only needs to be performed for some MS so something like adding 'as required' in the Action box in section 3.5.1.1 and other such sections or alternatively the requirements under CP1472 and 74 need to merged more cohesively	CP1474 exempts Measurement Class F and Supplier-serviced Measurement Class G Metering Systems from Proving Tests. CP1472 exempts Metering Systems with integral Meter/outstations and a pulse multiplier of one. Supplier-serviced Metering Systems with SMETS Meters will be exempted on both counts.
BSCP502 3.5.7.16	<p>Numbering should be 3.2.7.16</p> <p>This step has only partially been thought through.</p> <p>Where the Supplier has chosen to perform validation and estimation, this step is not required at all.</p> <p>If the HHDC is performing the estimation on behalf of the Supplier it implies the old HHDC has to provide historic data via the new data flow, this can only be true on the assumption that the site was also an Elective one under the old HHDC. So, should the site have</p>	<p>Agreed. Numbering should be 3.2.7.16.</p> <p>If the Supplier has notified the HHDC that it will perform validation and estimation, the new NHHDC would not need to request the history. Suggest adding 'As required and ...' to 3.2.7.16.</p>

Comments on the CP1474 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
	previously been (say) a Profile Class 5 to 8, then the old HHDC should not be bound to provide historic data. Since, in such a case, the old HHDC would not have data available in this format.	
BSCP504 3.3.16	Please confirm the following process: When there is a CoMC from NHH to HH for a Supplier Serviced System (section 3.3.16 – BSCP504) the NHHDC will know to follow this process by reference to the previous D0150 (Meter Type = S2...) that should have been provided by the MOA and the D0151 (Termination Reason = "MC") that the Supplier provides. Otherwise how will the NHHDC know that it is a Supplier-serviced mpan?	Yes. The NHHDC will know about the CoMC from the Termination Reason of 'MC' in the D0151. The NHHDC will already know that the NHH Metering System is Supplier-serviced, from the Contract Reference in the D0155.
BSCP504 3.3.18.11	In this section there is no Change of Supplier therefore the 3rd paragraph with respect to the supplier adopting the old Suppliers SSC.	Agreed. 3 <sup>rd</sup> paragraph should be deleted.
BSCP504 3.3.19	It is proposed that where there is a CoMC HH to NHH with CoS, no D0010 would be sent by the gaining supplier as the old supplier, who was settling HH, would not require it. We believe that the gaining supplier should still send the D0010 candidate reading as per P302 requirements and the losing supplier, who chose to settle HH, can ignore it. This way a party who doesn't elect to settle HH does not have to change their gain process for smart metered customers settled NHH.	Agreed. Whilst not needed by the old Supplier, sending the D0010 reduces the changes required to the gaining Supplier's processes.
BSCP514 1.1	Where we reference the relevant MTD dataflow we suggest that the first section should read "For Half Hourly Trading (HHDC-Serviced Metering Systems)". We use this terminology throughout rather differentiating by exception.	Agreed.

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## Comments on the CP1474 Proposed Redlining

Document & Location	Comment	ELEXON's Response
BSCP514 5.2.2.6	The current drafting suggests the D0215 is optional. For a new Connection, unlike other processes, we believe a Supplier would require this no matter how they choose to settle the metering system. Whilst this is not material we do believe this is more in keeping with existing New Connections processes under NHH and HH processes.	The D0215 is sent to the HHMO, rather than the Supplier. The view of the working group was that requesting the D0215 should be optional, as the HHMO would not need the site details for Metering Systems in Measurement Classes F and G.
BSCP514 5.2.4	Change of Supplier and HHMO. Says There is a new section for a supplier serviced metering system. This reference should be removed – a HHMO is only applicable for mandatory HH which is DC serviced.	The abbreviation MOA is used for Supplier-serviced Metering Systems, where the NHHMOA is fulfilling its functions in respect of a HH Metering System. The abbreviation HHMOA is used for those activities that apply to both HHDC-Serviced and Supplier-serviced Metering Systems. This is clarified in footnote 13, which is the first time that the abbreviation MOA is used.
BSCP514 5.2.4.11	For clarity this step should refer to the New MOA in line with following sections.	Agreed. 'MOA' should read 'New MOA'.
BSCP514 5.2.4.11 to 5.2.4.14	<p>A note could be made to clarify that where the Supplier fails to configure the meter within 5 working days that they may choose revert to legacy NHH processes.</p> <p>Also where any process involves a CoS we believe a D0367 is required. In keeping with P302 requirements the D0367 acts as an instruction to the MOP to release the D0149/D0150 meter technical details. Whilst the meter may not be reconfigured</p>	<p>As this is a change of HH Supplier, the legacy NHH processes would not apply.</p> <p>Our recommended alternative is to re-word the 'Action' column to: "Send Smart Meter Configuration Details.</p> <p>If unable to re-configure the Time of Use registers, or no re-configuration required, the Supplier will notify the existing configuration details, where known.</p> <p>If the Time of Use registers are not configured to a valid Standard Settlement Configuration (as defined in MDD), or the Supplier is unable to determine the current configuration, the Supplier will notify a single rate SSC".</p> <p>The D0367 is already included in</p>

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## Comments on the CP1474 Proposed Redlining

Document & Location	Comment	ELEXON's Response
		5.2.4.11. Changing 'If New Supplier reconfigures the Time of Use registers' to 'Within 1 WD of configuration or within 1 WD of SSD as applicable' will ensure that the D0367 is always sent, whether the Supplier re-configures or not.
BSCP514 5.2.7.8 to 5.2.7.10	<p>A note could be made to clarify that where the Supplier fails to configure the meter within 5 working days that they may choose revert to legacy NHH processes.</p> <p>Also where any process involves a CoS we believe a D0367 is required. In keeping with P302 requirements the D0367 acts as an instruction to the MOP to release the D0149/D0150 meter technical details. Whilst the meter may not be reconfigured</p>	<p>As this is a change of HH Supplier, the legacy NHH processes would not apply.</p> <p>Our recommended alternative is to re-word the 'Action' column to:</p> <p>"Send Smart Meter Configuration Details.</p> <p>If unable to re-configure the Time of Use registers, or no re-configuration required, the Supplier will notify the existing configuration details, where known.</p> <p>If the Time of Use registers are not configured to a valid Standard Settlement Configuration (as defined in MDD), or the Supplier is unable to determine the current configuration, the Supplier will notify a single rate SSC".</p> <p>The D0367 is already included in 5.2.7.8. Changing 'If New Supplier reconfigures the Time of Use registers' to 'Within 1 WD of configuration or within 1 WD of SSD as applicable' will ensure that the D0367 is always sent, whether the Supplier re-configures or not.</p> <p>Change 5.2.7.9 from 10 WD to 5 WD for consistency with HHDC-serviced timescales and 5.2.4.13.</p>
BSCP514 7.8	<p>A note could be made to clarify that where the Supplier fails to configure the meter within 5 working days that they may choose revert to legacy NHH processes.</p> <p>Also where any process involves a CoS we believe a D0367 is required. In keeping with P302 requirements the D0367 acts as an</p>	<p>The legacy NHH processes, as applied to the NHH CoS process, would not apply on CoMC (for example, reverting to requesting the reading history).</p> <p>Will move the 'backstop' process from 7.8.12 to 7.8.11 and reword to:</p> <p>"If unable to re-configure the Time</p>

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Comments on the CP1474 Proposed Redlining		
Document & Location	Comment	ELEXON's Response
	instruction to the MOP to release the D0149/D0150 meter technical details. Whilst the meter may not be reconfigured	of Use registers within 5 working days, or no re-configuration required, the Supplier will notify the existing configuration details, where known".  On the second point, the 'when' column should be changed to 'Within 1 WD of configuration or within 1 WD of SSD as applicable' in line with the NHH CoS process for smart Meters.
BSCP533 Appendix B 3.3.6	On page 43 there is reference to the D0286 rather than the D0268 dataflow	Agreed. D0286 should read D0268.
BSCP533 Appendix B 3.3.7	As above, on page 48.	Agreed. D0286 should read D0268.
BSCP533 Appendix B 3.4.4	We do not believe the drafting of the exclusion is particularly clear. In keeping with other exclusions perhaps it should be made clear "If a D0155 has been received and the Retrieval Method is 'S'..." it should be excluded from the reporting.	The exclusion in 3.4.4 reads 'Not required, as identified by an accepted D0155 with a Retrieval Method (J0098) of 'S' (Supplier sourced Half Hourly smart meter readings)'.



## 7 Recommendations

We invite you to:

- **AGREE** the amendments to the proposed redlining for BSCP533 Appendix B for CP1474, made following the CP Consultation;
- **APPROVE** the proposed changes to BSCP533 Appendix B, BSCP537 Appendix 1 and BSCP537 Appendix 2 for CP1474;
- **APPROVE** CP1474 for implementation on 29 June 2017 as part of the June 2017 Release; and
- **NOTE** that CP1474 will also be presented to the SVG for decision on 3 January 2017, and the ISG will make an ex-committee decision on CP1474 on 4 January 2017.

## 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>Code Subsidiary Document</i> )
CoMC	Change of Measurement Class
CoS	Change of Supplier
CP	Change Proposal
CPC	Change Proposal Circular
CSMWG	Change of Measurement Class for Smart Meters Working Group ( <i>Industry expert group</i> )
DA	Data Aggregator ( <i>Supplier Agent role</i> )
DC	Data Collector ( <i>Supplier Agent role</i> )
DCC	Data Communications Company ( <i>Licensed industry body</i> )
DTC	Data Transfer Catalogue ( <i>Industry Code Subsidiary Document</i> )
ECOES	Electricity Central Online Enquiry Service ( <i>Industry database</i> )
HH	Half Hourly
HHDA	Half Hourly Data Aggregator ( <i>Supplier Agent role</i> )
HHDC	Half Hourly Data Collector ( <i>Supplier Agent role</i> )
HHMOA	Half Hourly Meter Operator Agent ( <i>Supplier Agent role</i> )
ISG	Imbalance Settlement Group ( <i>Industry Panel sub-committee</i> )
MC	Measurement Class
MDB	Master Registration Agreement Development Board ( <i>Industry Panel</i> )
MDD	Market Domain Data ( <i>Industry database</i> )
MOA	Meter Operator Agent ( <i>Supplier Agent role</i> )
MOP	Meter Operator ( <i>Supplier Agent role</i> )
MPAN	Meter Point Administration Number
MPID	Market Participant Identifier
MRA	Master Registration Agreement ( <i>Industry Code</i> )
MRASCo	MRA Service Company ( <i>Code administrator</i> )
MS	Metering System
MTD	Meter Technical Details
NHH	Non Half Hourly
NHHDC	Non Half Hourly Data Collector ( <i>Supplier Agent role</i> )
NHHMOA	Non Half Hourly Meter Operator Agent ( <i>Supplier Agent role</i> )

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Acronyms	
Acronym	Definition
PAB	Performance Assurance Board ( <i>Industry Panel sub-committee</i> )
PARMS	Performance Assurance Reporting and Monitoring System
SMETS	Smart Metering Equipment Technical Specifications ( <i>Industry document</i> )
SMRS	Supplier Meter Registration Service
SRAG	Settlement Reform Advisory Group ( <i>Industry expert group</i> )
SSC	Standard Settlement Configuration
SSD	Supply Start Date
SVA	Supplier Volume Allocation
SVG	Supplier Volume Allocation Group ( <i>Industry Panel sub-committee</i> )
WD	Working Day

## DTC data flows

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

DTC data flows	
Number	Name
D0010	Meter Readings
D0011	Agreement of Contractual Terms
D0012	Confirmation of the Inclusion of the Metering Point in the Reading Schedules
D0036	Validated Half Hourly Advances for Inclusion in Aggregated Supplier Matrix
D0055	Registration of Supplier to Specific Metering Point
D0149	Notification of Mapping Details
D0150	Non Half-hourly Meter Technical Details
D0151	Termination of Appointment of Contract by Supplier
D0155	Notification of Meter Operator or Data Collector Appointment and Terms
D0205	Update Registration Details
D0215	Provision of Site Technical Details
D0235	Half Hourly Aggregation Exception Report
D0261	Rejection of Agent Appointment
D0268	Half Hourly Meter Technical Details
D0302	Notification of Customer Details
D0303	Notification of Meter Operator, Supplier and Metering Assets installed / removed by the MOP to the MAP
D0312	Notification of Meter Information to ECOES
D0367	Smart Meter Configuration Details

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## 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
3, 12	Elective HH Settlement conclusion paper on the Ofgem website	<a href="https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper">https://www.ofgem.gov.uk/publications-and-updates/elective-half-hourly-settlement-conclusions-paper</a>
3	SMETS1 policy on the government website	<a href="https://www.gov.uk/government/publications/smart-metering-implementation-programme-technical-specifications">https://www.gov.uk/government/publications/smart-metering-implementation-programme-technical-specifications</a>
3	SMETS2 policy on the government website	<a href="https://www.gov.uk/government/consultations/smart-metering-equipment-technical-specifications-second-version">https://www.gov.uk/government/consultations/smart-metering-equipment-technical-specifications-second-version</a>
3	CSMWG page on the ELEXON website	<a href="https://www.elexon.co.uk/group/change-measurement-class-comc-smart-meters/">https://www.elexon.co.uk/group/change-measurement-class-comc-smart-meters/</a>
3	D0268 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0268&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0268&amp;FlowVers=1&amp;searchMockFlows=False</a>
3	D0150 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0150&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0150&amp;FlowVers=1&amp;searchMockFlows=False</a>
5	CP1474 page on the ELEXON website	<a href="https://www.elexon.co.uk/change-proposal/cp1474/">https://www.elexon.co.uk/change-proposal/cp1474/</a>
5	D0149 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0149&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0149&amp;FlowVers=1&amp;searchMockFlows=False</a>
5, 6, 7	BSCP page on 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>
5	D0055 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0055&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0055&amp;FlowVers=1&amp;searchMockFlows=False</a>
5	D0205 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0205&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0205&amp;FlowVers=1&amp;searchMockFlows=False</a>
6	D0302 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0302&amp;FlowVers=2&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0302&amp;FlowVers=2&amp;searchMockFlows=False</a>
6	D0215 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0215&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0215&amp;FlowVers=1&amp;searchMockFlows=False</a>
6	D0303 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0303&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0303&amp;FlowVers=1&amp;searchMockFlows=False</a>

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External Links		
Page(s)	Description	URL
6	D0312 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0312&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0312&amp;FlowVers=1&amp;searchMockFlows=False</a>
7	D0155 page on the MRA website	<a href="https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0155&amp;FlowVers=1&amp;searchMockFlows=False">https://dtc.mrasco.com/DataFlow.aspx?FlowCounter=0155&amp;FlowVers=1&amp;searchMockFlows=False</a>
7	DTC CP 3496 page on the MRA website	<a href="https://mra.mrasco.com/change/changes-to-support-the-implementation-of-the-srag-recommendations/">https://mra.mrasco.com/change/changes-to-support-the-implementation-of-the-srag-recommendations/</a>
7	CP1469 page on the ELEXON website	<a href="https://www.elexon.co.uk/change-proposal/cp1469/">https://www.elexon.co.uk/change-proposal/cp1469/</a>
7	SVG188 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/svg-188/">https://www.elexon.co.uk/meeting/svg-188/</a>
7	CP1466 page on the ELEXON website	<a href="https://www.elexon.co.uk/change-proposal/cp1466/">https://www.elexon.co.uk/change-proposal/cp1466/</a>
7	BSC Panel 261 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/bsc-panel-259/?from_url=https://www.elexon.co.uk/events-calendar-item/bsc-panel-259/">https://www.elexon.co.uk/meeting/bsc-panel-259/?from_url=https://www.elexon.co.uk/events-calendar-item/bsc-panel-259/</a>
8	CP1475 page on the ELEXON website	<a href="https://www.elexon.co.uk/change-proposal/cp1475/">https://www.elexon.co.uk/change-proposal/cp1475/</a>
8	SVG191 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/svg-191-2/">https://www.elexon.co.uk/meeting/svg-191-2/</a>
13	ISG186 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/isg-186/?from_url=https://www.elexon.co.uk/events-calendar-item/isg-186/">https://www.elexon.co.uk/meeting/isg-186/?from_url=https://www.elexon.co.uk/events-calendar-item/isg-186/</a>
13	PAB189 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/pab189/?from_url=https://www.elexon.co.uk/events-calendar-item/pab-189/">https://www.elexon.co.uk/meeting/pab189/?from_url=https://www.elexon.co.uk/events-calendar-item/pab-189/</a>
14	SVG189 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/svg-189/?from_url=https://www.elexon.co.uk/events-calendar-item/svg-189/">https://www.elexon.co.uk/meeting/svg-189/?from_url=https://www.elexon.co.uk/events-calendar-item/svg-189/</a>

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