CP Assessment Report

CP1416 'Remotely disabled smart Meters'

Contents

About This Document

This document is the Change Proposal (CP) 1416 Assessment Report which ELEXON will present to the Supplier Volume Allocation Group (SVG) at its meeting on 2 September 2014. The SVG will consider the proposed solution and the responses received to the CP Consultation before deciding whether to approve CP1416.

There are four 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 and B contain the proposed redlined changes to deliver the CP1416 solution.
- Attachment C the full responses received to the CP Consultation.

Committee

Supplier Volume Allocation Group

Recommendation

Approve

Implementation Date

25 June 2015 (June 2015 Release)

Any questions?

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1 Why Change?

Background

Meters complying with the Smart Metering Equipment Technical Specifications (SMETS) will have a function to remotely disable a customer's supply. This functionality is also available in a sub-set of advanced Meters. A remotely disabled smart Meter will not be de-energised under the Balancing and Settlement Code (BSC) definition in BSC Section X Annex X-1.

In the case of a remotely disabled smart Meter, electricity will continue to flow to and from the 'system' (in this case the distribution network), with only the supply between the Meter and the consumer's circuits disabled. This will allow the smart Meter to be enabled remotely. As a remotely disabled Meter can still be read, the Supplier will be able to retrieve zero advances. As such, there is not the same need to exclude Estimated Annual Consumption (EAC) values from aggregation runs as there is for de-energised sites.

What is the issue?

ELEXON has received enquiries which suggest that there is confusion about the status of remotely disabled smart (and advanced) Meters for Settlement purposes. The requirements in BSC Procedure (BSCP) 504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS' and BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS' have been reviewed by a joint BSC – Master Registration Agreement (MRA) working group looking at consequential changes arising from the mass roll-out of smart metering. It was agreed that the existing BSCP requirements need addressing so there is not the potential for remotely disabled sites to be incorrectly treated as de-energised.

A mechanism is required for the Supplier to notify the Non Half Hourly Data Collector (NHHDC) of readings from remotely disabled sites, so that zero advances do not fail validation. This is included in the validation changes in CP1417 'Reading validation for smart Meters'.

Licensed Distribution System Operators (LDSOs) may also need to know whether a Metering System is remotely disabled, but will able to determine this from the Meter itself via the Data and Communications Company (DCC).

2 Solution

Proposed solution

CP1416 'Remotely disabled smart Meters' proposes to add a clarification to the energisation and de-energisation processes in BSCP 504 and BSCP514 to the effect that a remotely disabled smart or advanced Meter shall be treated as energised for the purpose of Settlement. This change has been reviewed by a joint BSC-MRA working group looking at consequential changes arising from the mass roll-out of smart metering, who agreed that this CP should be raised.

Proposed redlining

The proposed redlining to BSCP504 and BSCP514 to deliver CP1416 can be found in Attachments A and B.

3 Impacts and Costs

Central impacts and costs

Central impacts

CP1416 will require an update to BSCP504 and BSCP514 to implement the proposed solution. You can find the proposed changes in Attachments A and B respectively. No central system changes will be required for this CP.

Central Impacts	
Document Impacts	System Impacts
• BSCP504 • BSCP514	• None

Central costs

The central implementation costs for CP1416 will be approximately £240 (1 man day) for ELEXON to implement the relevant document changes. There are no BSC Agent costs or impacts.

BSC Party & Party Agent impacts and costs

Participant impacts

CP1416 will impact Suppliers, NHHDCs and Meter Operator Agents (MOAs). Six of the nine respondents to the CP Consultation indicated an impact. Respondents noted that all remote disable processes will need to be reviewed to confirm that the status of de-energised will not be set. Changes will also be required to Supplier and NHHDC systems to accept and process the potential data flow changes required to communicate this additional information.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
Suppliers	Updates to systems and processes will be required to implement the solution.
NHHDCs	
MOAs	

Participant costs

Only two of the nine respondents to the CP Consultation indicated that there would be costs associated with CP1416, although they indicated that these would be low. One respondent commented, however, that they were unable to provide any details on associated costs for delivering the change at this time.

Attachment C contains the full responses made by participants on the expected impacts and costs for CP1416.

4 Implementation Approach

Recommended Implementation Date

CP1416 was originally targeted for implementation on 26 February 2015 as part of the February 2015 BSC Systems Release. This was so the changes could be implemented at the same time as other smart Metering consequential changes and in good time for the initial live operation of the DCC, which is planned for December 2015.

Seven of the nine respondents to the CP Consultation agreed with this proposed Implementation Date, whilst two respondents disagreed. One of the respondents commented that although the change would not require any systems changes, its association with CP1417 would require significant work. As such, it was suggested that CP1416 is implemented in the November 2015 Release in time for the DCC go live in December 2015 with CP1415 'Reading submission frequency for smart Meters' and CP1417.

The other respondent commented that implementing CP1416 in February 2016 alongside the other proposed smart changes would be a more sensible approach, without detrimentally impacting the smart programme. The same respondent also questioned whether the changes would need to be live for the testing and Initial Live Operation phase of the DCC.

Attachment C contains the full responses made by participants regarding the proposed Implementation Date.

ELEXON noted that the purpose of the change was to be 'ready in good time for the initial live operation of the DCC, which is planned for December 2015'. Taking respondents' concerns and other already-approved industry changes for February 2015 into account (including Electricity Market Reform (EMR)), we believe that it would be more appropriate to implement CP1416 on **25 June 2015** as part of the June 2015 Release. This will allow participants more time to implement the changes and allow time to align a Data Transfer Catalogue (DTC) change in support of CP1417.

5 Initial Committee Views

SVG's initial views

ELEXON presented CP1416 to the SVG for comment at its meeting on 1 July 2014 (SVG161/04).

A member of the SVG commented that further clarification was required in the background section of the paper as to whether energy would still be able to flow to the customer or only to the remotely disabled smart Meters. ELEXON clarified that only the supply between the Meter and the consumer's circuits will be disabled but that Suppliers will still be able to communicate with the Meter via the DCC. ELEXON agreed to include this clarification into the background section of the Assessment Consultation for CP1416.

6 Industry Views

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

Summary of CP1416 CP Consultation Responses				
Question	Yes	No	Neutral/ No Comment	Other
Do you agree with the CP1416 proposed solution?	9	0	0	0
Do you agree that the draft redlining delivers the intent of CP1416?	9	0	0	0
Will CP1416 impact your organisation?	6	3	0	0
Will your organisation incur any costs in implementing CP1416?	2	6	0	1
Do you agree with the proposed implementation approach for CP1416?	7	2	0	0
Do you have any further comments on CP1416?	4	5	0	0

Comments on the CP

Respondents to the CP Consultation unanimously agreed with the proposed changes.

One respondent commented that further work may be required with respect to recording periods of 'disablement'. They noted that, to ensure that periods of non-consumption are taken into account during Settlement, it may be beneficial for the NHHDC to be aware of when the Meter was 'disabled' and also when the Meter is re-enabled (although this does pose further questions where there is a Change of Supplier (CoS) during the period).

ELEXON advised that this is covered by CP1417 where the validation requirement to accept zero advances relies on the NHHDC knowing that a site is disabled. CP1417 recognises that a mechanism will be required for the Supplier to notify the NHHDC of readings from remotely disabled sites, so that zero advances do not fail validation. Therefore if CP1417 is approved, it is proposed that this could be achieved by a separate DTC change, for example by introducing a new code in the valid set for the J0024 'Site Visit Check Code' data item or by introducing a new data item.

Another respondent commented that MOAs have always been aware that unless the mains fuse is removed, a site will always be classed as energised for the purpose of safety etc. The same respondent noted that the 'DYYYY' flow which is to be introduced by CP1417 could and should capture the remote disabled status to send to the MOA. Although MOAs will always work from the energisation status only, the respondent highlighted that they may also want to know if the Meter is shut down as this would help MOAs handle any queries received and any on-site activity. The respondent commented that this should not impact the approach to the way risk assessments are performed on site, as the operator should always confirm the energisation status before performing any work regardless of the status of the Meter.

ELEXON clarified that Suppliers can allow their MOAs read-only access to the Meter via the DCC so they will be able to ascertain whether a Meter is remotely disabled. The NHHDC, however, will not have access so needs to be told by the Supplier because of the validation requirement in CP1417. This will be captured as part of the DTC change.

One respondent commented that whilst they support the change, from a Supplier perspective if a site is recognised as energised, the Supplier will still be liable for Distribution Use of System (DUoS) standing charges, which may not be recoverable from a customer. If the site is deemed to be de-energised then no such charges would be applied. ELEXON noted that if DUoS charges for remotely disabled sites are inappropriate, then this should be pursued via the Distribution Connection and Use of System Agreement (DCUSA). Although the supply to the customer premise is disabled, the Meter and communications hub are still powered (otherwise remote re-enablement would not work). As this energy is unmetered, LDSOs will not be able to charge for it as metered energy so would need to do so as losses.

Comments on the proposed redlining

No comments were received on the proposed redlined text for CP1416.

7 Recommendations

We invite you to:

- **APPROVE** the proposed changes to BSCP504 and BSCP514 for CP1416; and
- **APPROVE** CP1416 for implementation on 25 June 2015 as part of the June 2015 Release.

Appendix 1: Glossary & References

Acronyms

Acronyms used in this document are listed in the table below.

Glossary of Defined Terms	
Acronym	Definition
BSC	Balancing and Settlement Code
BSCP	Balancing and Settlement Code Procedure
CP	Change Proposal
CoS	Change of Supplier
DC	Data Collector
DCC	Data and Communications Company
DCUSA	Distribution Connection and Use of System Agreement
DTC	Data Transfer Catalogue
DUoS	Distribution Use of System
EAC	Estimated Annual Consumption
EMR	Electricity Market Reform
LDSO	Licensed Distribution System Operator
MOA	Meter Operator Agent
MRA	Master Registration Agreement
NHH	Non Half Hourly
SMETS	Smart Metering Equipment Technical Specifications
SVG	Supplier Volume Allocation Group

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
J0024	Site Visit Check Code

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	BSCPs page of ELEXON website (BSCP504 and BSCP514)	http://www.elexon.co.uk/bsc-related-documents/related-documents/bscps/

External Links		
Page(s)	Description	URL
2	CP1417 webpage on ELEXON website	http://www.elexon.co.uk/change-proposal/cp1417/
3	CP1416 webpage on ELEXON website	http://www.elexon.co.uk/change-proposal/cp1416/
5	CP1415 webpage on ELEXON website	http://www.elexon.co.uk/change-proposal/cp1415/
5	SVG161 page on ELEXON website	http://www.elexon.co.uk/meeting/svg-160-2/