

CP Progression Paper

CP1500 'Amend the BSCP537 Appendices to add a requirement for Suppliers and MOAs to demonstrate the ability to send and receive Smart Meter Configuration details'

ELEXON



Committee

Imbalance Settlement Group



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About This Document

This document provides information on new Change Proposal (CP) CP1500 and outlines our proposed progression timetable for this change, including when it will be issued for CP Consultation in the next suitable Change Proposal Circular (CPC) batch.

We are presenting this paper to capture any comments or questions from the Imbalance Settlement Group (ISG), Performance Assurance Board (PAB) and the Supplier Volume Allocation Group (SVG) Members on this CP before we issue it for consultation.

There are four parts to this document:

- This is the main document. It provides a summary of the solution, impacts, anticipated costs, and proposed implementation approach, as well as our proposed progression approach for this CP.
- Attachment A contains the CP1500 proposal form.
- Attachments B and C contain(s) the proposed redlined changes to deliver the CP1500 solution.

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1 Why Change?

Background

For a Data Communications Company (DCC) serviced SMETS v2.0 Meter (Smart Meter)¹, the process by which Suppliers and Meter Operator Agents (MOAs) interact, is changing. In order to achieve the 2020 installation target, the rate of installing Smart Meters is expected to increase considerably over the next few years.

Due to the increased functionality of Smart Meters, the roll-out is also expected to result in the development of new 'Time of Use' tariffs. The 'Time of Use' tariff, in conjunction with a Smart Meter, allows Suppliers to target their costs to particular periods of use and the Smart Meter provides a real-time breakdown of costs depending on the time of day and prevailing Time of Use tariff rate. To accommodate the roll-out of Smart Meters and the consequent changes in how customers interact with their supply contract and services, many long-standing Change of Supplier (CoS) processes have changed.

Under current Supplier Hub arrangements for non-DCC serviced Smart Meters, MOAs:-

- configure and reconfigure Meters on behalf of Suppliers; and
- inform Data Collectors (DCs) of the Meter configuration details.

Under the new arrangements for DCC serviced Smart Meters, Suppliers are required to:-

- configure and reconfigure Meters; and
- pass the configuration details on to the non Half Hourly (NHH) MOA.

The Supplier sends details of the configuration by sending a D0367 'Smart Meter Configuration Details' data flow. This data flow contains information such as the Meter ID (Serial Number), Time Pattern Regime(s)² and the relevant effective Settlement dates. It can either be sent as a D0367 data flow via the Data Transfer Network (DTN) or by an alternate method, as agreed between the Supplier and the MOA³.

What is the issue?

The Qualification (and re-Qualification for NHHMOAs) process does not require Suppliers and NHHMOAs to demonstrate their ability to send and receive D0367 data flows respectively. The responsibilities on Suppliers and NHHMOAs in respect of the exchange of Smart Meter Configuration Details are not currently included in BSCP537 Appendix 1 or BSCP537 Appendix 2.

It is expected that Suppliers will have to configure and reconfigure Smart Meters at a higher frequency than MOAs currently configure non-Smart Meters. This is a new responsibility for Suppliers and there is no assurance in place to check that Suppliers have the ability to create and send D0367 data flows, or that MOAs are able to receive them as part of their Qualification process. It should be noted that Suppliers' and MOAs' ability to



What is a Data Flow?

A Data Flow is a structured message, containing a specific set of information, sent in the Data Transfer Network (DTN). Each flow is in a set format and contains a list of populated data fields. These Data Flows are used to transfer specific information between industry participants.

The [MRA Data Transfer Catalogue](#) contains a compiled list of all Data Flows and their individual components.

¹ Smart Metering Equipment Technical Specifications: second version. Describes the minimum physical, functional, interface and Data requirements of an Electricity Smart Metering Equipment that a Supplier is required to install in order to comply with condition 39 of its Licence.

² The unique market-wide reference for a Time Pattern Regime being used to calculate money owed for energy used by each customer. A pattern of switching behaviour through time that one or more Settlement Register uses.

³ For the purpose of this report we will only refer to D0367, but this should be taken to refer equally to any alternative means of communication agreed bilaterally

send and receive other data flows that are also required for Settlement purposes are tested as part of the Qualification process, but this has not yet been extended to D0367 data flows.

Due to the more active role that Suppliers will play in configuration and re-configuration (alongside a possible need to develop their technical expertise in order to translate the DCC User Interface Responses⁴ into data flows), there is a risk that D0367 data flows will not contain all of the required information, is not accurate or even that D0367 data flows are not sent to, or received by the correct NHHMOA.

Qualification Process

In Order to demonstrate that a Party or Agent has the necessary systems and processes in place to fulfil its obligations and to mitigate/minimise the risks of failure, they must undergo a Qualification process. [The Balancing and Settlement Code \(BSC\) Procedure \(BSCP\) 537 'Appendix 1 Self Assessment Document \(SAD\)'](#) contains the necessary requirements for both Qualification and re-Qualification. Applicants are required to complete the SAD in accordance with [BSCP537 'Qualification process for SVA Parties, SVA Party Agents and CVA MOAs'](#).

Party Agents may need to re-Qualify if there is a Material Change to the functionality of a Party Agent's systems or processes used for the delivery of the service for which they are Qualified.

⁴ The means by which DCC users interact with DCC devices as well as some Service Requests that do not communicate with DCC devices.



What is the Performance Assurance Framework (PAF)?

One of ELEXON's role as administrator of the BSC is to monitor and ensure the compliance of all BSC Parties, within the requirements of the BSC, along with undertaking Performance Assurance activities.

This is achieved through the Performance Assurance Framework (PAF) and overseen by the Performance Assurance Board (PAB).

[For more information, see the BSC website](#)

Proposed solution

BSCP537 Appendices 1 and 2 should be amended to include a requirement for Suppliers to confirm that they are able to collate and send a D0367 data flow, and that NHHMOAs are able to receive them, correctly. BSCP537 Appendices should be amended to include the obligation to send and receive D0367 data flows, which may also be subject to inclusion in the annual BSC Audit.

Proposer's rationale

[BSCP514 'SVA Operations for Metering Systems Registered in SMRS'](#) outlines the scenarios where a D0367 data flow should be sent. This CP aims to introduce qualification requirements that provide assurance that Suppliers and MOAs are able to comply with the requirements of the BSC and that correct data is used for Settlement, thus reducing the Settlement risk.

The SAD requires Suppliers and MOAs to evidence the controls and procedures they have in place for sending, receiving and processing of numerous data flows. BSCP537 Appendix 2 contains the lists of data flows that have to be tested for each role. Introducing the D0367 data flow into the BSCP537 Appendices will bring them into line with other data flows that are checked as part of the Qualification and re-Qualification process.

Issue 69

Issue 69 '[Performance Assurance Framework](#)' was raised to review how ELEXON conducts Performance Assurance. The Issue workgroup is looking at four work streams, one of which is Smart Metering. A paper was presented to the PAB – '[Smart Risk Register \(PAF Review Work stream 1\)](#)' ([PAB Paper 197/07](#)) in June 2017 to update the PAB on the Smart Metering work. A high risk area was identified (medium likelihood, high impact – see PAB197/07A for further details) in relation to the Supplier-Agent interface and it was recommended that the D0367 data flow should be included in the Qualification process. This CP has been raised to make the necessary changes to BSCP537 Appendices 1 and 2.

Proposed redlining

Attachments B and C set out the proposed draft changes to the BSCP537 Appendices 1 and 2, required to implement the proposed solution.

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Central impacts and costs

Central impacts

CP1500 will require changes to two Code Subsidiary Documents (CSDs):

- BSCP537 Appendix 1 will be changed to include the responsibilities on Suppliers and MOAs relating to the D0367 data flow to the SAD; and
- BSCP537 Appendix 2 will be changed to include the D0367 in the sets of data flows included in the Qualification testing requirements for Suppliers and MOAs.

CP1500 has no impact on BSC Systems.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none">• BSCP537 Appendix 1 'Self-Assessment Document' (SAD)• BSCP537 Appendix 2 'Testing Requirements'	<ul style="list-style-type: none">• None

Central costs

The central implementation costs for CP1500 will be approximately £240 (one ELEXON working day to implement the necessary document changes).

BSC Party & Party Agent impacts and costs

The changes will not apply to existing Suppliers, as they do not need to re-Qualify. For new Suppliers going through Qualification, demonstrating their means of sending D0367 data flows will be done alongside the other data flows they are already expected to be able to demonstrate their ability to send. The same will apply to new MOAs receiving data flows when Qualifying and re-Qualifying.

Suppliers and MOAs should already be sending and receiving D0367 data flows as per BSCP514, so we do not expect there to be any changes required from BSC Parties or their Agents in order to be able to send D0367 data flows.

We will confirm the impact on BSC Parties and their Agents during the consultation.

Testing requirements

Each applicant, as part of the Qualification process, has to demonstrate their ability that the correct process is in place to collate and send validated Data Flows, along with maintaining a full audit trail.

The receiving participant must be able to receive the Data Flow; interpret the files received and route them to their intended destination.

4 Implementation Approach

Recommended Implementation Date

CP1500 is proposed for implementation on **28 June 2018** as part of the June 2018 BSC Scheduled Release.

We expect this change to have negligible impact and lead times, so it is recommended that CP1500 is included in the first available Release following its approval.

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5 Proposed Progression

Progression timetable

The table below outlines the proposed progression plan for CP1500:

Progression Timetable	
Event	Date
CP Progression Paper presented to ISG for information	16 Jan 18
CP Progression Paper presented to PAB for information	25 Jan 18
CP Progression Paper presented to SVG for information	30 Jan 18
CP Consultation	5 Feb 18 – 2 Mar 18
CP Assessment Report presented to ISG for decision	20 Mar 18
CP Assessment Report presented to SVG for decision	27 Mar 18
CP Assessment Report presented to PAB for decision	29 Mar 18
Proposed Implementation Date	28 Jun 18 (Jun 18 Release)

CP Consultation questions

We intend to ask the standard CP Consultation questions for CP1500. We do not believe any additional questions need to be asked for this CP.

Standard CP Consultation Questions
Do you agree with the CP1500 proposed solution?
Do you agree that the draft redlining delivers the CP1500 proposed solution?
Will CPXXXX impact your organisation?
Will your organisation incur any costs in implementing CP1500?
Do you agree with the proposed implementation approach for CP1500?

6 Recommendations

We invite you to:

- **NOTE** that CP1500 has been raised;
- **NOTE** the proposed progression timetable for CP1500;
- **PROVIDE** any comments or additional questions for inclusion in the CP Consultation; and
- **Note** that we will also present CP1500 to the PAB on 25 January 2018 and the SVG on 30 January 2018 for initial comment.

Appendix 1: Glossary & References

Acronyms

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

Acronyms	
Acronym	Definition
BSC	Balancing and Settlement Code
BSCP	BSC Procedure
CoS	Change of Supplier
CP	Change Proposal
CPC	Change Proposal Circular
CSD	Code Subsidiary Document
CVA	Central Volume Allocation
DC	Data Collector
DCC	Data Connections Company
DTC	Data Transfer Catalogue
DTN	Data Transfer Network
ISG	Imbalance Settlement Group
MOA	Meter Operator Agent
NHH	Non Half Hourly
PAB	Performance Assurance Board
PAF	Performance Assurance Framework
SAD	Self-Assessment Document
SMETS	Smart Metering Equipment Technical Specifications
SVA	Supplier Volume Allocation
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
D0367	Smart Meter Configuration Details

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.

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External Links		
Page(s)	Description	URL
2	BSCP537 Appendix 1 on BSC website	https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/?show=all
2	BSCP537 on BSC Website	https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/?show=all
2	MRA Data transfer Catalogue	https://dtc.mrasco.com/Default.aspx
3	BSCP514 on BSC Website	https://www.elexon.co.uk/bsc-and-codes/bsc-related-documents/bscps/?show=all
3	Issue 69 page on BSC Website	https://www.elexon.co.uk/smg-issue/issue-69/
3	PAB Meeting 197	https://www.elexon.co.uk/meeting/pab-197/
3	Performance and Assurance page on website	https://www.elexon.co.uk/reference/performance-assurance/

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