

## CP1443 'Standard Settlement Configurations for smart and advanced Meters'



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### About This Document

The purpose of this Change Proposal (CP) Consultation for CP1443 is to invite BSC Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1443. The Supplier Volume Allocation Group (SVG) will then consider the consultation responses before making a decision on whether or not to approve CP1443.

There are four parts to this document:

- This is the main document. It provides details of the solution, impacts, costs, and proposed implementation approach.
- Attachment A contains the CP1443 Proposal Form.
- Attachment B contains the proposed redlined changes to deliver the CP1443 solution.
- Attachment C contains the specific questions on which we seek your views. Please use this form to provide your response to these questions, and to record any further views or comments you wish to be considered.

# 1 Why Change?

## What are the current BSC arrangements?

There are currently two ways to switch electrical loads or time-of-use registers:

- either locally, by timeswitching (i.e. via a timeswitch in, or attached to, the Meter); or
- remotely, using a time signal from the Radio Teleswitch Service (RTS).

Suppliers who use the RTS to switch load or registers should assign Metering Systems to an RTS Standard Settlement Configuration (SSC). An RTS SSC includes two additional data items in Market Domain Data (MDD):

- a Teleswitch User ID (TSU); and
- a Teleswitch Group ID (TSG).

The Time Pattern Regime Ids for an RTS SSC have a teleswitch/clock indicator value of 'S' (as opposed to 'C' for clock-switched or timeswitched) and, by convention, have five-digit IDs that are greater than 00999.

In the case of timeswitched Meters, MDD pre-defines both the time-of-use registers and the switching times. In the case of teleswitched Meters, MDD defines the registers, but the Teleswitch Agent notifies the Supplier Volume Allocation Agent (SVAA) of the broadcast switching times for each TSU and TSG on a daily basis.

## What is the issue?

With the introduction of smart metering, the Data and Communications Company (DCC) will process requests from Suppliers to remotely switch registers and control load. In addition, it will send commands to be applied by the relevant smart Meter.

When a Meter Operator Agent (MOA) replaces an RTS Meter with a smart Meter, the Supplier can retain the Metering System on its existing RTS SSC. The MOA can then configure the smart Meter's switching calendar so that the load (and/or time-of-use registers) is set to the same time as the RTS group to which the Metering System previously belonged. However, this presents three problems:

- Assigning a non-RTS Metering System to an RTS SSC means that the Metering System will be mislabelled;
- Suppliers, Supplier Agents and Distribution System Operators (DSOs) will lose the distinction between smart Meters and teleswitch Meters and will be unable to track the migration of RTS Metering Systems; and
- When the RTS signals are eventually no longer broadcast for the RTS group in question, any Metering Systems left on the RTS SSC will no longer be settled correctly.

In February 2015, the Profiling and Settlement Review Group (PSRG) completed a project to identify ways to ensure accurate Settlement for dynamically-controlled load (and time-of-use registers) through smart Meters. The PSRG concluded that Half Hourly (HH) Settlement for dynamically-controlled load is the best longer-term option. However, in the shorter term, Suppliers can treat dynamically switched smart Meters as static timeswitched

(with an approximation in Settlement). Static<sup>1</sup> or semi-static<sup>2</sup> switching regimes already account for a significant majority of RTS Metering Systems, so Suppliers can move these Metering Systems to an equivalent timeswitched SSC.

At its 3 February 2015 meeting, the SVG ([SVG168/09](#)) agreed with the PSRG's recommendations. It requested that ELEXON raise a CP to mandate that Suppliers move smart Meters with dynamically-controlled load to a new (or existing) non-RTS SSC upon installation of a smart Meter.

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<sup>1</sup> Registers/load are switched at the same time every day of the year.

<sup>2</sup> Registers/load are switched at the same time every day within a defined season or change only to accommodate British Summer Time and/or Bank Holiday adjustments.

## 2 Solution

### Proposed solution

CP1443 'Standard Settlement Configurations for smart and advanced Meters' was raised by ELEXON. It proposes to add a new requirement to section 4.2 of [BSCP516 'Allocation of Profile Classes and SSCs for Non Half Hourly SVA Metering Systems Registered in SMRS'](#) so that Suppliers only use SSCs for teleswitch regimes when the Metering System's registers are switched using the RTS. Suppliers should therefore assign all other Metering Systems (including smart Meters which are switched remotely or by a switching calendar) to a timeswitched SSC.

This change will have the benefit of providing an enduring solution beyond the end of the RTS to smart transition. It will also avoid mixing RTS and smart Metering Systems on the same SSC, and so facilitates Supplier reporting of RTS migration.

#### CP Consultation Question

Do you agree with the CP1443 proposed solution?

*Please provide your rationale.*

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

### Proposed redlining

The proposed redlined changes to BSCP516 to deliver CP1443 can be found in Attachment B.

#### CP Consultation Question

Do you agree that the draft redlining delivers the CP1443 proposed solution?

*If 'No', please provide your rationale.*

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

## 3 Impacts and Costs

### Central impacts and costs

#### Central impacts

CP1443 will require updates to BSCP516 to implement the proposed solution. No system changes will be required for this CP.

Central Impacts	
Document Impacts	System Impacts
<ul style="list-style-type: none"><li>BSCP516</li></ul>	<ul style="list-style-type: none"><li>None</li></ul>

#### Central costs

The central implementation costs for CP1443 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

We expect CP1443 to impact Suppliers and Half Hourly (HH) MOAs. We believe that minor process changes will be required to implement the solution but we seek confirmation of this through this CP Consultation.

Participant Impacts	
Participant	Impact
Suppliers	Changes will be required to implement the solution.
HHMOAs	

#### CP Consultation Questions

Will CP1443 impact your organisation?

*If 'Yes', please provide a description of the impact(s) on your organisation and any activities which you will need to undertake between the approval of CP1443 and the CP1443 Implementation Date (including any necessary changes to your systems, documents and processes). Where applicable, please state which of the roles that you operate as will be impacted and any differences in the impacts between each role.*

Will your organisation incur any costs in implementing CP1443?

*If 'Yes', please provide details of these costs, how they arise and whether they are one-off or on-going costs.*

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

## 4 Implementation Approach

### Recommended Implementation Date

CP1443 is proposed for implementation on **25 February 2016** as part of the February 2016 BSC Systems Release, as this is the next available Release.

#### CP Consultation Question

Do you agree with the proposed implementation approach for CP1443?

*Please provide your rationale.*

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

## 5 Initial Committee Views

### SVG's initial views

The SVG considered CP1443 at its meeting on 2 June 2015 ([SVG172/05](#)).

An SVG Member commented that participants may need assistance with the practicalities of setting up any new SSCs required. ELEXON advised that this CP would introduce the new requirement in BSCP516, but that any new SSCs will be introduced through the normal MDD change process as and when they are needed. The availability of auxiliary load control switches and variant Smart Metering Equipment Technical Specification (SMETS) Meters will dictate when Suppliers need new SSCs; this will be independent of the CP Implementation Date.

Another SVG Member queried whether Suppliers will dynamically switch Meters via the DCC. ELEXON advised that CP1443 primarily targets former RTS Metering Systems on static or semi-static switching regimes. Once Suppliers have installed smart Meters they will switch registers (and load) via the DCC using the smart Meter's switching calendar. It noted that time-switched SSCs can also be used for dynamically switched Metering Systems where switching occurs within a narrowly defined switching window. For broadly defined switching windows, HH Settlement is likely to be a better solution.

The SVG did not request for any additional questions to be added to this CP Consultation.

## 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	Balancing and Settlement Code Procedure ( <i>Code Subsidiary Document</i> )
CP	Change Proposal
CPC	Change Proposal Circular
DCC	Data and Communications Company
DSO	Distribution System Operator
HH	Half Hourly
MDD	Market Domain Data
MOA	Meter Operator Agent ( <i>Party Agent</i> )
PARMS	Performance Assurance Reporting and Monitoring System
PSRG	Profiling and Settlement Review Group ( <i>Panel sub-Committee</i> )
RTS	Radio Teleswitch Service
SMETS	Smart Metering Equipment Technical Specification
SSC	Standard Settlement Configuration
SVAA	Supplier Volume Allocation Agent ( <i>BSC Agent</i> )
SVG	Supplier Volume Allocation Group ( <i>Panel Committee</i> )
TSG	Teleswitch Group ID
TSU	Teleswitch User ID

### 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	SVG168 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/svg-168/">https://www.elexon.co.uk/meeting/svg-168/</a>
4	CP1443 page on the ELEXON website	<a href="https://www.elexon.co.uk/change-proposal/cp1443/">https://www.elexon.co.uk/change-proposal/cp1443/</a>
4	BSCPs 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>
6	SVG172 page on the ELEXON website	<a href="https://www.elexon.co.uk/meeting/svg-172/">https://www.elexon.co.uk/meeting/svg-172/</a>

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