

## CP Consultation

### CP1565 Updating BSCP520 to address operational issues in the Central Management System

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#### About This Document



Not sure where to start? We suggest reading the following sections:

- Have 5 mins? Read section 1
- Have 15 mins? Read sections 1, 4, 5 and 6
- Have 30 mins? Read all sections
- Have longer? Read all sections and the annexes and attachments
- *You can find the definitions of the terms and acronyms used in this document in the [BSC Glossary](https://www.elexon.co.uk/glossary/)<sup>1</sup>*

The purpose of this Change Proposal (CP) Consultation is to invite BSC Parties, Party Agents and other interested parties to provide their views on the impacts and the merits of CP1565. The Supplier Volume Allocation Group (SVG) will then consider the consultation responses before making a decision on whether or not to approve CP1565.

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.
- Attachment A contains the CP proposal form.
- Attachment B contains the proposed redlined changes to deliver the CP1565 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.



#### Committee

Supplier Volume  
Allocation Group (SVG)



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<sup>1</sup> <https://www.elexon.co.uk/glossary/?show=all>

## 1. Summary

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### Why change?

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Central Management Systems (CMS), used in dynamic street lighting control, do not currently have a clear approval process within the BSC. As a result of this process not being clearly defined and documented, there is a risk that CMS will be non-compliant. Additionally, there is no clearly defined fault reporting process, which increases the likelihood that the CMS will contain incorrect data as a result of a fault.

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### Solution

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This CP seeks to update BSCP520 to contain a clearly outlined CMS approval and fault reporting process. This would involve updating the test specification document to set out the tests to be completed, and detailing the timescales expected for fault reporting.

The redlining to support this change can be found in Attachment B.

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### Impacts and costs

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The proposed changes would positively impact those involved in CMS approval and operation, due to increased clarity regarding the CMS approval and fault reporting processes.

This CP will require changes to one CSD, BSCP520. No central system changes or impacts to BSC Agents are anticipated. The central implementation costs for this CP will be less than £1,000 to update the relevant impacted documents.

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### Implementation

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The CP is proposed for implementation on 3 November 2022 as part of the standard November 2022 BSC Release. This is the first available release and will ensure that the expected benefits are achieved as soon as practicable.

## 2. Why Change?

### What is the issue?

The BSC does not currently contain clear guidance on how Central Management System (CMS) and Measurement Central Management System (mCMS) applications are approved. Additionally, when faults are detected, the BSC does not provide guidance on how they are reported. As a result, common operational issues have been identified with CMS that pose a risk to Settlement in terms of Half Hourly (HH) energy calculation accuracy.

### Background

BSCP520 'Unmetered Supplies Registered in SMRS'<sup>2</sup> details the requirements for Unmetered Supplies (UMS) in the Supplier Meter Registration Service (SMRS). It explains that Metering data for Settlement purposes shall be derived utilising either an Equivalent Meter (EM) providing HH data or an Estimated Annual Consumption (EAC) per Metering System Identifier (MSID). The Metering data is recorded and dynamically controlled in the CMS.

### Central Management Systems

Central Management Systems (CMS) are used in dynamic street lighting control to manage the electrical load of UMS equipment that can operate at multiple on/off time and/or dimming levels. The electrical loads are recorded as events, which are used by a Meter Administrator (MA) to calculate consumption data for Settlement. This form of Settlement is known as dynamic HH Settlement. Further, the CMS has a subset system called the Measurement Central Management Systems (mCMS), which uses feedback from an active measuring device to dynamically control and manage the electrical load used by UMS Apparatus.

The HH electricity consumption values associated with Unmetered Apparatus is calculated using hardware and software known as an Equivalent Meter. There are of two types of Equivalent Meter: Passive Meters and Dynamic Meters. Passive Meters allocate the Unmetered consumption using a mathematical relationship, while Dynamic Meters use operational or switching data.

### Approval Process

Both the CMS and mCMS have their respective testing and approval process, which is one of the requirements any interested party must satisfy before they are granted the approval to use the CMS.

Several issues with the current approval process have been identified, particularly around the testing of the systems. For example, some new CMS Providers are using an 'existing approved system' which has not been subject to testing under their control, and then appear to not fully understand the operational requirements or have the system configured incorrectly. There are also concerns that evidence presented by CMS Providers may be unclear or doctored.

Having a clear and documented process within BSCP520 would promote consistency in the approval process and the evidence provided, reducing issues going forwards.

CP1565

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<sup>2</sup> <https://www.elexon.co.uk/csd/bscp520-unmetered-supplies-registered-in-smrs/>

### 3. Solution

#### Proposed solution

The Proposer seeks to update BSCP520 to contain a clearly outlined CMS approval and fault reporting process. This change seeks to include the following areas in BSCP520:

- The test specification document will set out the tests to be completed and the approval process for a CMS and mCMS; and
- The fault reporting and resolution process will be clearly outlined, guiding the relevant Parties on who should report faults and when these faults should be reported.

This CP would also introduce the term “CMS Test Agent” to the BSCP, to mean an MA appointed to carry out testing of a CMS in accordance with the relevant test specifications. This would ensure that testing is carried out by a Qualified MA rather than Elexon.

#### Proposer’s rationale

If this change is not progressed, there is a risk that the CMS will contain incorrect data as a result of a fault. Further, the likelihood of CMS/mCMS not undergoing the required testing process will be high, thus introducing a risk of a non-compliant CMS/mCMS being used to record Metering data.

The inclusion of a clearly detailed test approval and fault reporting process will ensure that the current perceived risks to Settlement in relation to how HH energy is calculated and represented, is reduced.

#### CP Consultation Question

**Do you agree with the CP1565 proposed solution?**

*Please provide your rationale.*

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

#### Proposed redlining

The CP proposes to update BSCP520. The redlining to support this change can be found in Attachment B.

#### CP Consultation Question

**Do you agree that the draft redlining delivers the CP1565 proposed solution?**

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

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

## 4. Impacts and Costs

### BSC Party & Party Agent impacts and costs

#### Participant impacts

The proposed changes would outline a CMS approval and fault reporting process, and the increased clarity will have a positive impact to the BSC Parties and Party Agents involved in these processes.

BSC Party & Party Agent Impacts	
BSC Party/Party Agent	Impact
Supplier	Increased clarity regarding the CMS approval and fault reporting processes.
Meter Administrator	
Unmetered Supplies Operator (UMSO)	
Half Hourly Data Collectors	

#### Participant costs

This CP intends to document the process that already occurs, so no additional resource requirements or costs are expected.

### Central impacts and costs

#### Central impacts

This CP will require changes to one CSD, as listed below. No central system changes or impacts to BSC Agents are anticipated.

Central Impacts	
Document Impacts	System Impacts
• <a href="#">BSCP520 'Unmetered Supplies Registered in SMRS'</a>	• None

#### Impact on BSC Settlement Risks

Impact on BSC Settlement Risks
Elxon anticipate no significant impact on Settlement Risks associated with this change, but it could have a positive impact on SVA Risk 11 'Unmetered Supplies volumes calculated incorrectly'.

#### Central costs

The central implementation costs for this CP will be less than £1,000 to update the relevant impacted documents.

## CP Consultation Questions

### Will CP1565 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 CP1565 and the CP1565 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 CP1565?

*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

## 5. Implementation Approach

### Recommended Implementation Date

The CP is proposed for implementation on 3 November 2022 as part of the standard November 2022 BSC Release. This is the first available release and will ensure that the expected benefits are achieved as soon as practicable.

#### CP Consultation Question

**Do you agree with the proposed implementation approach for CP1565?**

*Please provide your rationale.*

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

## 6. Initial Committee Views

### SVG's initial views

The CP1565 Progression Paper ([SVG257/03](#)<sup>3</sup>) was presented to the SVG committee at its meeting on 5 July 2022.

An SVG member questioned whether Half Hourly Data Collectors (HHDCs) would also be impacted due to their involvement in the fault reporting process. They further commented that it would be important to capture this impact prior to the consultation, so that HHDC views could be sought. Elexon agreed that HHDCs should be included as an impacted Party Agent, and the consultation document and webpage now reflect this.

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<sup>3</sup> <https://www.elexon.co.uk/meeting/svg257/>