ELEXON

CP Progression Paper

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*[1]

This document provides information on a new Change Proposal (CP) 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 the Supplier Volume Allocation Group (SVG) on 5 July 2022 to capture any comments or questions from Committee Members on this CP before we issue it for consultation.

There are three 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 CP proposal form.
- Attachment B contains the proposed redlined changes to deliver the CP solution.

[1] https://www.elexon.co.uk/glossary/?show=all

Committee

Supplier Volume Allocation Group (SVG)

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SVG257/03

CP

CP Progression Paper

28 June 2022

Version 1.0

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1. Summary

Why change?

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.

Solution

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.

Impacts and costs

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.

Implementation

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.

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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'[2] 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.

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[2] 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.

Proposed redlining

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

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4. Impacts and Costs

BSC Party & Party Agent impacts and costs

The proposed changes would outline a CMS approval and fault reporting process, and the increased clarity will have a positive impact to BSC Parties and Party Agents. This CP intends to document the process that already occurs, so no additional resource impacts are expected.

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)	

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**
• BSCP520 'Unmetered Supplies Registered in SMRS'	• None

Impact on BSC Settlement Risks

Impact on BSC Settlement Risks
Elexon 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.

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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.

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6. Proposed Progression

Progression timetable

The table below outlines the proposed progression plan for this CP:

Progression Timetable	
Event	**Date**
CP Progression Paper presented to SVG for information	5 July 2022
CP Consultation	11 July 2022 – 5 August 2022
CP Assessment Report presented to SVG for decision	6 September 2022
Proposed Implementation Date	3 November 2022 (November 2022 Release)

CP Consultation questions

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

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

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7. Recommendations

We invite you to:

- **NOTE** the proposed progression timetable for the CP; and
- **PROVIDE** any comments or additional questions for inclusion in the CP Consultation.
- **NOTE** that this CP will be presented to:
- the SVG on 5 July 2022.

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