Change Proposal – BSCP40/02	CP No: 1285 *Version No: v1.0* *(mandatory by BSCCo)*

Title *(mandatory by originator)*

Unmetered Supplies: Clarification of Central Management System requirements

Description of Problem/Issue *(mandatory by originator)*

Central Management Systems (CMS) enable Unmetered Supplies equipment to be controlled in a more dynamic way. A CMS provides customers with greater control over the operation of the supply, thereby offering the potential for energy savings. It may be operated by the customer or the Meter Administrator (MA), provided that the MA system (i.e. the system which calculates the consumption) is operated by a Qualified MA and the MA retains responsibility for the quality of any data submitted by the customer.

The requirements which a CMS must meet were introduced by Change Proposal (CP) 1196[1] in February 2008, and are set out in BSCP520 'Unmetered Supplies Registered in SMRS'.

Our testing and discussions with CMS manufacturers following the implementation of CP1196 have identified four issues regarding the existing wording of BSCP520 Section 4.5.2.3:

- **Maximum file lines permitted:** The number of lines allowed in the control file (Section 4.5.2.3(a)) and the event file (Section 4.5.2.3(c)) are likely to be insufficient to record the expected volume of information. The BSCP currently contains five Ns (representing the number of lines permitted) for each of these files, allowing a maximum of 99,999 lines. However, it is likely that in the near-future a large CMS customer could need 100,000 items (e.g. 100,000 street lights) in the control file. And, as at least two events would be associated with each street light (e.g. when each light is switched on and switched off), a minimum of 200,000 lines would be needed in the event file.

- **CMS Unit Reference for control devices:** Section 4.5.2.3(a) of the BSCP requires the control file to contain a 12-digit CMS Unit Reference. For the CMS control device itself, the BSCP requires this reference to be generically completed as 'Control'. However, it is not clear how these seven digits should be extended to meet the overall 12-digit requirement.

- **CMS Unit Reference for non-control devices:** Section 4.5.2.3(a) of the BSCP states that the CMS Unit Reference in the control file for non-control devices shall be a 12-digit alphanumeric field that acts as a unique identifier of the unit under CMS control. The BSCP leaves the exact structure of the reference to be agreed between the Customer and the Unmetered Supplies Operator (UMSO). Our testing with manufacturers has identified a risk that, if the CMS Unit Reference begins with the letters 'H' or 'T', the MA system could confuse it with the file header or trailer (which always start with these letter identifiers).

- **Definition of information flag:** Section 4.5.2.3(c) of the BSCP currently states that the information flag (I) used in the body of the event file should be defined in the Operational Information Document. This is inconsistent with the intention of the CMS Review Group, which could not agree on definitions and recommended that these be left to each individual manufacturer.

[1] CP1196 'Changes to incorporate CMS in Unmetered Supplies arrangements' was raised to implement the recommendations of the CMS Review Group.

Proposed Solution *(mandatory by originator)*

Proposed changes to BSCP520:

CP1285 will resolve these issues by amending Section 4.5.2.3 of BSCP520 to:

- Increase the number of 'N's for the control file from five to six (thereby increasing the number of lines allowed from 99,999 to 999,999);
- Increase the number of 'N's for the event file from five to seven (increasing the number of lines allowed from 99,999 to 9,999,999);
- Clarify that, for a CMS control device, the CMS Unit Reference should be entered as 'Control ' ('Control' followed by five blank spaces) to meet the BSCP's 12-digit requirement;
- Clarify that the CMS Unit Reference for non-control devices should not begin with the letters 'H' or 'T', so that it cannot be confused with the file header or trailer; and
- Remove the reference to the information flag being defined in the Operational Information document, and clarify that the CMS manufacturer can specify its use/structure with the MA's agreement.

We have provided our proposed redlined changes to BSCP520 as Attachment 1 to this CP.

Impacts on participants:

We have developed our proposed redlined changes in collaboration with UMSOs, MAs and CMS manufacturers who are involved in the CMS process.

The proposed new formats for the control and event files are already supported by the single existing CMS-capable MA system and the other CMS manufacturers who have contacted us to enquire about providing this service under the BSC.

We anticipate that the only impact to participants will be on any UMSOs who have already adapted their systems to produce a control file, and who will therefore need to amend these to include the extra 'N'. However, we invite participants to confirm through their impact assessments whether any changes are required to their systems, processes or documents.

Justification for Change *(mandatory by originator)*

The existing wording in BSCP520 lacks clarity regarding the requirements for a CMS, and could result in the CMS Unit Reference being confused with the file header or trailer. Its current limits on file lines also unnecessarily prevent all UMS data for a large customer from being recorded in a CMS.

Improving the clarity of the BSCP and increasing the number of file lines will improve the efficiency of the processes by which a CMS is developed and implemented. The extended line limits which we propose in this CP will ensure that CMS are future-proofed against any likely further increases in customer size. This CP will also ensure that a CMS can be used for the purposes that the CMS Review Group originally intended. All of these improvements will ultimately benefit UMS customers.

To which section of the Code does the CP relate, and does the CP facilitate the current provisions of the Code? *(mandatory by originator)*

CP1285 will facilitate the use of Equivalent Meters[2] for calculating UMS consumption, in line with Section S8 of the Code.

[2] The hardware and software which is used to calculate the half hourly consumption of electricity associated with an Unmetered Supply. A CMS is one example of an Equivalent Meter.

Estimated Implementation Costs *(mandatory by BSCCo)*

The implementation costs will be 1 man day of ELEXON effort (equating to £220).

Configurable Items Affected by Proposed Solution(s) *(mandatory by originator)*

CP1285 will require changes to Section 4.5.2.3 of BSCP520 as set out in Attachment 1. It will not impact any other Configurable Items.

Impact on Core Industry Documents or System Operator-Transmission Owner Code *(mandatory by originator)*

None.

Related Changes and/or Projects *(mandatory by BSCCo)*

Issue 0003 'Meter Administrator Market Issues' is currently considering other potential changes to BSCP520, which may result in further CPs. However, the areas being discussed under Issue 0003 have no direct interaction with CP1285.

Requested Implementation Date ***(mandatory by originator)***

November 2009 Release.

Reason:

Next available release for a documentation change.

Version History ***(mandatory by BSCCo)***

We raised version 1.0 of CP1285 on 3 April 2009. We issued the CP for industry impact assessment on the same day as part of Change Proposal Circular 00660.

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Attachments: Attachment A – Proposed redlined changes to BSCP520