

4.3 CP Form

Change Proposal – BSCP40/02	CP No: <i>Version No: VI.0</i> <i>(mandatory by BSCCo)</i>
Title (mandatory by originator) Number of register digits for smart Meters	
Description of Problem/Issue (mandatory by originator) <p>Following the implementation of Smart Energy Code (SEC) Modification SECMP0006, Electricity Smart Metering Equipment (ESME) and Gas Smart Metering Equipment (GSME) will display a specified subset of digits from their Consumption Registers on their User Interfaces (UI). As a result the number of register digits on a smart Meter’s display (when converted from Wh to kWh) has reduced from seven to five for single phase electricity Meters and from seven to six for polyphase electricity Meters. The Master Registration Agreement (MRA) intends to implement a change to the Meter Technical Details (MTD) in June 2019 such that the number of digits in the internal Meter register is consistent with those displayed on the UI. However, the Meter will still hold more digits than specified in the MTD. Although the MRA change will provide a consistent view of the number of digits on the UI, it does not address the issue of readings being retrieved containing more digits than specified in the MTD. This could result in valid readings being rejected or in erroneous Meter Advances being calculated.</p> <p>The Balancing and Settlement Code (BSC) does not provide for this scenario, and there are general obligations in Balancing and Settlement Code Procedure 504 ‘Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS’ and BSCP514 ‘SVA Meter Operations for Metering Systems Registered in SMRS’ that could result in reads failing validation or being misinterpreted causing erroneous data to enter Settlement. SECMP0006 was implemented on 30 September 2018.</p> <p>CPI253 ‘Remote Reading Assurance’, implemented in the February 2009 release, introduced a requirement for Non Half Hourly Data Collectors (NHHDCs) to ensure that readings retrieved remotely are the same as readings on the display of the Meter. This requirement is no longer relevant following the approval of SECMP0006 and is, in any case, not applicable where readings are being retrieved from smart Meters by the Supplier, rather than the NHHDC.</p>	
Proposed Solution (mandatory by originator) <p>The solution is to set out new rules for Suppliers and NHHDCs to ensure that the readings retrieved remotely from Smart Metering Equipment Technical Specification two (SMETS2) compliant Meters are treated consistently with readings shown on the UI. This will instruct how Data Collectors (DCs) and Suppliers should treat Meter readings with more details than specified in their MTD.</p> <p>We propose to address the issue by amending BSCP504:</p> <ul style="list-style-type: none"> • Add a footnote that states SMETS2 meter readings sent to the DC should be consistent 	

with the number of register digits specified in the MTD and displayed on the UI. This will be referenced whenever readings are retrieved from SMETS2 compliant Meters.

- Add a new validation rule to section 4.2 stating that if the DC receives readings with more digits than specified in the MTD, they should be treated as valid if the least significant digits (as specified in the MTD) are consistent with historical readings.
- Amend section 1.2.1 to clarify:
 - a) NHHDC is not responsible for retrieving readings from Data and Collection Company (DCC)-serviced Meters, this is the responsibility of the Supplier; and
 - b) Readings from SMETS2 compliant meters may be truncated in order for the number of digits to be consistent with the UI and MTD.

BSCP514 section 1.2 will be amended to include a rule for Meter Operators in the event that they use hand-held devices to retrieve readings from a smart Meter's internal registers, rather than taking an "eyeball" reading from the display. This rule will state that DCC-serviced SMETS2 meter readings should be consistent with the number of register digits specified in the MTD and displayed on the UI.

Justification for Change (mandatory by originator)

Inconsistencies between readings taken remotely and those taken locally could result in readings failing validation or being misinterpreted causing erroneous data to enter Settlement.

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

Section S 'Supplier Volume Allocation'

Estimated Implementation Costs (mandatory by BSCCo)

£360 (one ELEXON Working Day (WD)) of effort to implement the necessary document changes.

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

BSCP504 'Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS'

BSCP514 'SVA Meter Operations for Metering Systems Registered in SMRS'

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

None

Related Changes and/or Projects (mandatory by BSCCo)

MRASCO SPF103 'Standardisation of Number of Register Digits for SMETS2 meter' which is being implemented 27 June 2019.

Requested Implementation Date (mandatory by originator)

27 June 2019

Reason:

This is the earliest available scheduled Release that is available to include this CP. Further, this Release aligns to that of the MRA change implementation date.

Version History (mandatory by BSCCo)

Version 1.0 of CP1514 was issued on 17/12/2018

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17/12/2018

Attachments: **Yes**

Attachment A (21 pages) – Extracted redlined changes for BSCP504 ‘Non Half Hourly Data Collection for SVA Metering Systems Registered in SMRS’

Attachment B (2 pages) – Extracted redlined changes for BSCP514 ‘SVA Meter Operations for Metering Systems Registered in SMRS’