

Change Proposal – BSCP40/02	<p>CP No: 1388</p> <p><i>Version No: 1.0</i> <i>(mandatory by BSCCo)</i></p>
<p>Title <i>(mandatory by originator)</i></p> <p><i>Meter Technical Details for Smart Meters</i></p>	
<p>Description of Problem/Issue <i>(mandatory by originator)</i></p> <p>Meter Technical Details (MTDs) are sets of data relating to the Metering Equipment installed at each customer premise. These data sets are currently maintained by Meter Operator Agents (MOA) and distributed to the relevant Supplier, Data Collector (DC) and Licensed Distribution Business Operator (LDSO) for each Metering System to which the MOA is appointed.</p> <p>The role of the MOA will change with the roll-out of smart metering. The MOA will continue to install and maintain Meters via site visits, when requested by the relevant Supplier. However, Suppliers will be able to configure smart Meters remotely, for example, to set and change the Meter’s tariff registers to effect a change of Standard Settlement Configuration (SSC). They will achieve this by sending the relevant service request via the Data and Communications Company (DCC) User Gateway, which will result in the appropriate command being sent to the smart Metering System.</p> <p>It is anticipated that where remote configuration is not possible, e.g. due to a local failure of the Wide Area Network (WAN), the MOA may be instructed by the Supplier to update a configuration locally (e.g. using a handheld terminal) subject to the DCC/Smart Energy Code (SEC) security architecture.</p> <p>The existing processes for the distribution of Meter configuration details by the MOA will not be efficient for smart Meters, because of the fundamental change in the way that Meters and metering data will be managed and the more direct role that Suppliers will have in configuring registers.</p> <p>A mechanism is required to enable Suppliers to request the installation, replacement and removal of other items of equipment that form part of the smart metering installation and for MOAs to confirm the outcome of the request. Whilst information about items such as In Home Displays and Communication Hubs is not required for Settlement purposes, existing BSCP processes will need to reflect proposed changes to the Data Transfer Catalogue (DTC) to include such equipment.</p>	
<p>Proposed Solution <i>(mandatory by originator)</i></p> <p>For smart Meters, it is proposed that MTD are split into two flows –</p> <ul style="list-style-type: none"> • Smart Device Details – consisting of information that is sourced by the MOA based on the Meter and other smart equipment installed on site; • Meter Configuration Details – consisting of register mappings and other configuration data that can be set or amended by the Supplier remotely via the DCC. <p>For the purpose of this Change Proposal, smart Meters will be defined as any Meters that comply with the Smart Metering Equipment Technical Specification (SMETS) – i.e. will exclude Advanced Meters (AMR), those Advanced Domestic Meters (ADM) that are not compliant with the SMETS and Half Hourly (HH) settled Meters. It is envisaged that the scope will be widened, if required, via subsequent Change Proposals.</p> <p>Responsibility for sourcing and maintaining the Smart Device Details will remain with the MOA. The MOA will provide the Smart Device Details to the Supplier when a smart Meter is installed, replaced or removed or when any changes are made to the Smart Device Details.</p>	

Responsibility for sourcing and maintaining the Meter Configuration Details will rest with the Supplier. If the MOA configures the smart Meter locally, the MOA will send Meter Configuration Details to the Supplier. The smart Meter can then be re-configured remotely by the Supplier, if required, once communications have been re-established.

Whenever there is a change to the Smart Device Details, the Supplier will forward the Smart Device Details to the LDSO (and optionally to the Non Half Hourly (NHH) DC).

Whenever there is a change to the Meter Configuration Details, the Supplier will forward the Meter Configuration Details to the NHHDC and LDSO (and optionally to the MOA).

The Supplier will not be required to send the Smart Device Details and Meter Configuration Details as a pair, but may choose to do so.

The Supplier will also be responsible for distributing the Smart Device Details and Meter Configuration Details to the appropriate participants on change of MOA and change of NHHDC and to the new Supplier on change of Supplier.

Where a smart Meter is serviced by the DCC, it is assumed that security and communications details will remain the responsibility of the DCC and its service providers. Where there is a need to transfer security and communications details, it is assumed that this will be via the DCC User Gateway and that the interface definitions will form part of SEC governance. This would include the transfer of such data to and from the DCC and Smart Metering System Operators (SMSO) on 'opt-in'/'opt-out' of DCC Services (i.e. for Non Domestic, Profile Class 3 and 4 Metering Systems).

The scope of this Change Proposal excludes the change of Measurement Class processes. This is because further consideration is needed in the wider context of potential changes to the Metering Codes of Practice and the use of elective HH metering. These processes are likely to be subject to a subsequent Change Proposal.

Key features of the proposed solution are as follows:

1. Meter readings will be taken remotely by the Supplier on installation, change of configuration etc and provided to the NHHDC for validation. MOAs will not be required to provide any readings taken on site to the Supplier, unless required by the Supplier as a contingency or as evidence of a site visit. Suppliers will not be mandated to use readings from MOAs, where provided, except as a 'backstop'.
2. On replacement of a legacy Meter by a smart Meter, the new Smart Device Details flow (rather than the 'Non Half-hourly Meter Technical Details' (D0150) flow), will be used to notify the removal of the legacy Meter.
3. The Supplier will not be required to send the Meter Configuration Details to the MOA, but has the option to do so.
4. The Supplier will not be required to send the Smart Device Details to the NHHDC, but has the option to do so.
5. The Supplier will notify the energisation status of the Metering System on the Meter Configuration Details flow. The Meter Configuration Details will thus provide the NHHDC with the information needed to validate readings from the Supplier.
6. The timescales for the provision of Smart Device Details to the LDSO and Meter Configuration Details to the NHHDC and LDSO will initially be the same as those for providing the D0150 and 'Notification of Mapping Details' (D0149) flows (i.e. by 10 Working Days from the effective date). This obligation will be placed on the Supplier, with the transfer of the Smart Device Details between the MOA and the Supplier subject to contractual agreements.
7. On change of MOA and NHHDC, the Supplier will notify the new agent that the Metering

System has a smart Meter. The Supplier may use the Contract Reference in the ‘Notification of Meter Operator or Data Collector Appointment and Terms’ (D0155) or other means, as agreed.

8. The MOA’s responsibility for sending the ‘Notification of Meter Operator, Supplier and Metering Assets installed / removed by the MOP to the MAP’ (D0303) flow to the Meter Asset Provider (MAP) will remain unchanged. (A missing instance of the D0303 flow between the new MOA and MAP on concurrent change of Supplier and NHHMOA will be added to BSCP514 6.2.4).
9. The MOA’s responsibility for sending the ‘Notification of Meter Information to ECOES’ (D0312) flow will remain unchanged.
10. The energisation/de-energisation processes will remain unchanged. The MOA will continue to send the energisation status and associated readings to the Supplier, NHHDC and LDSO. Remotely disabled Meters are energised for Settlement purposes (and can still be read). It is not envisaged that Suppliers will need to notify other participants if a Meter is disabled as this information can be obtained from the Meter. It is expected that Suppliers will continue to take readings from remotely disabled Meters.
11. The SMETS includes multiple items that can be configured by the Supplier via the DCC User Gateway, for example pre-payment rates and thresholds, block pricing rules and thresholds for configurable alerts. Where these items are configured locally by the MOA, a mandated industry flow between the Supplier and the MOA is not proposed as part of this Change Proposal.
12. Where a Meter is configured more than once on a given day, the Supplier will endeavour to ensure that the latest version for that day is the one that is distributed to the NHHDC and LDSO (along with the relevant readings, in the case of the NHHDC).
13. A new flow – Smart Equipment Work Management Request – will be introduced as an alternative to the ‘Request for Installation or Change to a Metering System Functionality or the Removal of All Meters’ (D0142) flow for smart Meters. This will allow Suppliers to request the installation of additional smart Metering Equipment, other than the electricity Meter. The new Smart Device Details flow will include optional information about other smart Metering Equipment. Although this information will be copied to NHHDCs and LDSOs, they will be under no obligation to retain it.
14. The new processes have been “designed for success”. Use of the D0170 (Request for Metering System Related Details) flow has not been prescribed. Additional process steps to chase missing flows may need to be progressed via a separate Change Proposal, along with changes to the DTC to allow Supplier-Supplier and MOP-Supplier instances of the D0170.
15. An additional change to BSCP509 (Changes to Market Domain Data) will need to be raised in order to create a valid set for the proposed new data items – Smart Meter Manufacturer, Smart Meter Model and Smart Meter Version.
16. Changes are likely to be required to the relevant Performance Assurance Reporting and Monitoring System (PARMS) Serials to reflect the transfer of some of the MOA’s responsibilities to the Supplier. These will need to be progressed via a separate Change Proposal.
- 17.

Justification for Change (*mandatory by originator*)

The Department of Energy and Climate Change (DECC)’s Smart Metering Implementation Programme (SMIP) has defined requirements in relation to smart metering arrangements, which impact existing

electricity and gas codes. These requirements and potential consequential changes to industry codes were documented in the SMIP Business Process Design Group (BPDG) paper - Legacy System Changes (Enduring) v2.0 dated 14 November 2011. The proposed solution is that put forward by the SMIP, with some further refinements, as developed by a joint BSC-MRA working group and following a consultation on 1 October.

Under the proposed operating model for smart metering, Suppliers will have direct responsibility for how smart Meters operate. The proposed change will reflect the revised responsibilities and avoids making the MOA a “post-box” for configuration changes made by the Supplier. Given that configuration changes will usually be made by the Supplier, moving responsibility for distributing data from the MOA to the Supplier will ensure that NHHDCs and LDSOs receive the data they need from a single source and will know who to chase for missing details.

Whilst the proposed solution represents a broad consensus of the joint BSC-MRA working group, unanimous agreement was not obtained for all features of the solution. It is anticipated that incremental changes to the solution may be raised or required prior to implementation.

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

MOA responsibilities in respect of maintaining and distributing MTDs are set out in Section S 2.2 (Meter Operator Agents). Whilst these responsibilities will endure, a Modification is likely to be needed to the Code to reflect the transfer of some responsibilities from the MOA to the Supplier.

Estimated Implementation Costs (*mandatory by BSCCo*)

The ELEXON costs to implement the proposed changes equates to £240 (1 man day effort).

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

BSCP515 – Licensed Distribution

SVA Data Catalogue Volume 1: Data Interfaces

SVA Data Catalogue Volume 2: Data Items.

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

An MRA change to the Data Transfer Catalogue will be required to introduce three new data flows – Smart Device Details, Meter Configuration Details and Smart Equipment Work Management Request – and any associated new data items.

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

An MRA change to the Data Transfer Catalogue to introduce the three new data flows.

Requested Implementation Date (*mandatory by originator*)

By February 2014 or June 2014 (depending on impact assessment)

Reason:

To allow testing to take place as part of (or at the same time as) the SMIP's End-to-End Testing, ahead of the smart metering mass-rollout in late 2014.

Version History (*mandatory by BSCCo*)

Version 1.0 of CP1388 issued on 28 December 2012.

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Attachments: Y

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