Balancing and Settlement Code

BSC Procedure

Supplier Requirements for MHHS Metering Systems

BSCP709

Version 0.6

Date: DD MM YYYY

BSCP709 relating to

Supplier Requirements for MHHS Metering Systems

1. Reference is made to the Balancing and Settlement Code and, in particular, to the definition of "BSC Procedure" in Section X, Annex X-1 thereof.

2. This is BSC Procedure 709, Version 0.6 relating to Supplier Requirements for MHHS Metering Systems.

3. This BSC Procedure is effective from DD MM YYYY.

4. This BSC Procedure has been approved by the BSC Panel or its relevant delegated Panel Committee(s).

Amendment Record

Version	Date	Description of Change	Changes Included	Mods/Panel/Committee Refs.
0.1	08/11/2023	First consolidated draft	CoS Reads + LTV	
0.2	16/01/2023	Following consultation	Full Supplier BR scope	
0.3	19/02/2024	Updated for Mop-up 2	Full Supplier BR scope	
0.4	21/03/2024	Following Mop-up 2	Full Supplier BR scope	
0.5	10/05/2024	Following consistency check		
0.6	24/07/2024	Updated following consultation		

Contents

1. Introduction

1.1 Purpose and Scope of the Procedure

This BSC Procedure defines the requirements and processes for Suppliers under Market-wide Half Hourly Settlement. It sets out the general requirements that a Supplier shall follow as well as specific requirements on Change of Supplier (CoS), change of Agents, and requirements relating to the Transfer of Meter Readings and Agreed Meter Readings.

It describes the key interfaces and timetables for accessing Industry Standing Data (ISD), appointing Data Services, receiving and providing Meter Readings on a CoS events and detail of the processes around Long Term Vacant Sites (LTV).

The purpose of this BSC Procedure is to ensure that the appropriate Agents are appointed and data is provided in an orderly and timely manner.

1.2 Main Users of Procedure and their Responsibilities

This BSCP should be used by Suppliers. The SVAA will be managing the Industry Standing Data in addition to performing the Supplier Volume Allocation (SVA) role, and therefore SVAA is the Industry Standing Data Manager (ISDM).

1.3 Use of the Procedure

Suppliers shall use this BSCP to understand the requirements and processes to be followed for Migrated Metering Systems under Market-wide Half Hourly Settlement.

1.4 Balancing and Settlement Code Provision

This BSCP has been produced in accordance with the provisions of the Balancing and Settlement Code (the Code), and in particular the provisions of Section S ‘Supplier Volume Allocation’.

1.5 Associated BSC Procedures

BSCP550	Shared SVA Meter Arrangements
BSCP700	Unmetered Supplies Data Service
BSCP701	Smart Data Service
BSCP702	Advanced Data Service
BSCP703	BSC Central Services for MHHS Metering Systems
BSCP704	Unmetered Supplies Operations for MHHS Metering Systems
BSCP705	Licensed Distribution for MHHS Metering Systems
BSCP706	Supplier Meter Registration Service for MHHS Metering Systems
BSCP707	Changes to Industry Standing Data
BSCP708	Migration of Metering Systems to and from the MHHS Arrangements

1.6 Acronyms and Definitions

1.6.1 Acronyms

The acronyms used in this BSC Procedure are defined as follows:

ADS	Advanced Data Service
BSC	Balancing and Settlement Code
BSCCo	Balancing and Settlement Code Company
BSCP	BSC Procedure
CMRS	Central Meter Registration Service
CoSeg	Change of Segment
CoS	Change of Supplier
CT	Current Transformer
DS	Data Service
DCE	Demand Control Event
DIP	Data Integration Platform
DTN	Data Transfer Network
DUoS	Distribution Use of System
EMDS	Energy Market Data Specification
GSP	Grid Supply Point
HH	Half Hourly
Id	Identifier
IHD	In Home Display
ISD	Industry Standing Data
ISDM	Industry Standing Data Manager
kWh	Kilowatt hour
LDSO	Licensed Distribution System Operator[1]
LLF	Line Loss Factor
MAR	Meter Advance Reconciliation
MDS	Market-wide Data Service
MHHS	Market-wide Half Hourly Settlement
MOA	Meter Operator Agent
MPID	Market Participant Id
MS	Metering System
MSID	Metering System Identifier
MTD	Meter Technical Details

[1] LDSOs will include Independent LDSOs.

NETSO	National Electricity Transmission System Operator as the holder of the Transmission Licence and any reference to "NETSO", "NGESO", "National Grid Company" or "NGC" in the Code or any Subsidiary Document shall have the same meaning.
REC	Retail Energy Code
Ref	Reference
SDS	Smart Data Service
SFIC	Systems Fault Information Centre
SMDR	Smart Meter Data Retriever
SMRS	Supplier Meter Registration Service
SNAC	Supplier Nominated Annual Consumption
SSC	Standard Settlement Configuration
SSD	Supply Start Date
SVA	Supplier Volume Allocation
SVAA	Supplier Volume Allocation Agent
SVA MOA	SVA Meter Operator Agent
UMS	Unmetered Supplies
UMSDS	Unmetered Supplies Data Service
UTC	Co-ordinated Universal Time
VT	Voltage Transformer
WD	Working Day
Wh	Watt hour

1.6.2 Definitions

Full definitions of the above acronyms are, where appropriate, included in the Balancing and Settlement Code.

2. Responsibilities of the Supplier

2.1 General requirements

The Supplier shall, where possible, build in the ability to configure the settlement period duration during their solution design, in order to support any future move to a different settlement period duration.

The Supplier shall obtain Industry Standing Data (ISD) update notifications via the IF/PUB-047, and if required take necessary steps to obtain refreshed ISD data, maintain their records accordingly and reference/ utilise ISD as appropriate as part of the service delivery.

The Supplier shall utilise Industry Standing Data to identify the relevant Data Integration Platform (DIP) ID/Role or DTN Market Participant ID (MPID)/Role, as appropriate, to be used when communicating over the DIP/DTN.

The Supplier shall process data and share outputs with other parties in line with timescales set out in section 3 of this BSCP.

The Supplier shall notify faulty equipment it identifies to the SVA MOA and receive updates via the D0001 and D0002 as outlined in BSCP702.

The Supplier shall receive notification of any faulty equipment from the SDS via a D0001 or bilaterally agreed interface as outlined in BSCP701. For Smart and Traditional meters the Supplier will take the lead investigating faults.

The Supplier will be responsible for notifying the Data Service if they require data to be resubmitted as a result of a fault.

The Supplier shall notify any faulty equipment for the UMSDS to investigate via an agreed communication method, as outlined in BSCP700.

The Supplier shall send Notification of Customer Details to the Data Service via the D0302 on any change of occupancy.

Some MHHS processes require the continued use of DTN flows, Suppliers shall ensure that if they plan to service customer types that utilise these processes then a mechanism will be required for transmitting/receiving DTN flows.

The Supplier shall implement data validation steps and techniques as appropriate to ensure the most accurate and efficient delivery of the service.

The Supplier shall maintain and update their records with data received on interfaces to ensure the most accurate and efficient delivery of the service.

Supplier must be able to receive confirmation of reconnection of an MSID via the IF/PUB-009 and maintain records accordingly, where the LDSO has notified Registration Service that the MSID should be reconnected (where this is notified after initial disconnection, but in advance of registration de-activation).

The Supplier must undergo Onboarding in order to realise operational access to the DIP.

Supplier must be able to install and commission a Smart meter in line with the Smart Energy Code.

Supplier must be able to configure a Smart device and set payment mode in line with the Smart Energy Code.

2.2 Change of Supplier Requirements

The Supplier shall be able to obtain registration details via the IF/PUB-002 on the DIP and maintain records accordingly.

The Supplier shall appoint an appropriate Data Service and MOA for the Supply Start date, in line with the Change of Agent processes. In the case of Related MSIDs, the Supplier only needs to appoint Agents for the Primary MSID. The Secondary MSIDs will have the same MOA and Data Service automatically appointed. Primary and Secondary Related MSIDs (Metering Points) are as defined in REC Schedule 28.

In the case of Associated Import/Export MSIDs:

1. The Supplier only needs to appoint a MOA for the Import MSID. The Export MSID will have the same MOA automatically appointed.
2. The Supplier shall, in the case of a Smart segment meter, appoint a Smart Data Service for the Export MSID.
3. The Supplier only needs to appoint an Advanced Data Service or UMS Data Service for the Import MSID. The Export MSID will have the same ADS or UMSDS automatically appointed.

On Change of Supplier for the Export MSID, where the appointed MOA is different to that appointed to the Import MSID, this MOA will be automatically de-appointed and the MOA of the Import MSID will be automatically appointed to the Export MSID. The same process will occur to manage Data Service appointments for Metering Systems in the Advanced Segment.

2.3 Change of Data Service Requirements

The Supplier shall determine when it requires to appoint a new Data Service as part of a Change of Supplier, New Connection, Change of Market Segment or Change of Data Service process.

The Supplier shall publish a new Data Service appointment request using the IF/PUB-031 on the DIP.

The Supplier shall check that the request is in line with the validation rules outlined in the IF/PUB-031 specification.

The Supplier shall obtain initial Data Service rejected appointments from SMRS via the appropriate DIP interface, maintain records accordingly and re-issue Data Service appointment request as appropriate.

The Supplier shall obtain initial Data Service accepted appointments from SMRS via the appropriate DIP interface and maintain records accordingly.

The Supplier shall obtain SMRS Appointment Status Notification updates, with Prospective Data Service accepted appointments, via the IF/PUB-035 on the DIP and maintain records accordingly.

The Supplier shall obtain SMRS Appointment Status Notification updates, with Prospective Data Service lapsed/rejected appointments, via the IF/PUB-035 on the DIP, maintain records accordingly and re-issue a new Data Service appointment request as appropriate.

The Supplier shall obtain Data Service de-appointment notifications via the IF/PUB-037 on the DIP and maintain records accordingly.

The Supplier shall obtain SMRS Notification of Service Appointment & Supporting Info via the IF/PUB-036 on the DIP and update registration and metering details. For the avoidance of doubt this is the message that indicates that a Data Service appointment will/has taken effect.

The Supplier shall obtain de-appointment notifications for any Secondary Related MSIDs and/or Associated Export MSIDs, sent from SMRS on the DIP, via the IF/PUB-037 and maintain records accordingly.

The Supplier shall obtain appointment notifications for any Secondary Related MSIDs and/or Associated Export MSIDs, sent from SMRS on the DIP, via the IF/PUB-036 and maintain records accordingly.

The Supplier shall obtain Customer Direct Contract response via the IF/PUB-039 on the DIP and maintain records accordingly. Supplier shall utilise this information in future requests for Data Service appointments for the notified MSIDs.

The Supplier must ensure where a complex site requires both an SDS and ADS to service the site, then appointments must be made to an Agent which can provide both an ADS and a SDS service.

2.4 Change of existing Agent details Requirements

The Supplier shall determine when it needs to vary the conditions of an existing Agent appointment, for example to change the contract code or change the Smart Meter Data Retriever (SMDR) (SDS only).

The Supplier shall publish a Supplier Agent Appointment Request for a proposed Agent amendment via the IF/PUB-031 on the DIP.

The Supplier shall obtain SMRS Response to Supplier Service Appointment Requests, with rejected appointments, via the IF/PUB-032, maintain records accordingly and re-issue the Agent Appointment Amendment request as appropriate.

The Supplier shall obtain SMRS Response to Supplier Service Appointment Requests, with accepted appointments, via the IF/PUB-032 on the DIP and maintain records accordingly.

The Supplier shall obtain SMRS Appointment Status Notification updates, with Agent accepted amended appointments, via the IF/PUB-035 on the DIP and maintain records accordingly. This confirms that the Agent amendment has been successfully completed.

The Supplier shall obtain SMRS Appointment Status Notification updates, including SDS initiated change of SMDR updates, via the IF/PUB-035 on the DIP and maintain records accordingly.

The Supplier shall obtain SMRS Appointment Status Notification updates, with Agent rejected amended appointments, via the IF/PUB-035 on the DIP, maintain records accordingly and re-issue a new Agent appointment amendment request as appropriate.

2.5 Transfer of Meter Reads Requirements

The Incoming Supplier shall, for Smart meters and following a successful Change of Supplier or Change of Data Service, attempt to download the cumulative and register reads from the Smart meter and maintain records accordingly.

The Outgoing Supplier shall be able to obtain cumulative and register reads, where provided, sent by the outgoing Data Service on the DIP, via the IF/PUB-041, and compare against reads downloaded from the meter. Where the data matches within an acceptable tolerance, Supplier can use the data.

The Outgoing Supplier shall, where no register reads have been downloaded from the meter or received from the outgoing Data Service, estimate closing register reads using internal estimation processes.

The Outgoing Supplier shall validate any estimated closing register reads against the cumulative read provided by Outgoing Data Service. Where the data matches, within an acceptable tolerance, Supplier can use the data.

The Outgoing Supplier shall send Smart register reads to the Incoming Supplier via the D0010 for the CoS date.

The Incoming Supplier shall be able to obtain cumulative and, where provided, register reads, sent by the outgoing Data Service on the DIP via the IF/PUB-041, and compare against reads down-loaded from the meter and/or received from the incoming Data Service/ outgoing Supplier.

The Supplier shall be able to obtain cumulative and, where provided, register reads sent by the incoming Data Service on the DIP via the IF/PUB-041, and compare against reads down-loaded from the meter and/or received from the outgoing Data Service/ outgoing Supplier.

The Incoming Supplier shall, where provided by the outgoing Supplier, be able to receive Smart register reads via the D0010, and compare against reads down-loaded from the meter and/or received from the outgoing Data Service/ incoming Data Service.

The Incoming Supplier shall reconfigure the Smart meter when required and initiate the Transfer of Meter Readings process as set out in section 2.5.

The Incoming Supplier shall be able to receive Customer Own Transfer Reads and validate them using their internal validation processes.

The Incoming Supplier shall, for traditional meters, send validated Customer Own Transfer Reads to the outgoing Supplier via the D0010.

The Incoming Supplier shall, for traditional meters, receive Customer Own Transfer Reads from the outgoing Supplier via the D0010.

The Incoming Supplier shall, for traditional meters, send accepted Customer Own Transfer Reads to the incoming Data Service via the D0010.

The Outgoing Supplier shall, for traditional meters, receive Customer Own Transfer Reads from the incoming Supplier via the D0010, validate the reads and send a response to the incoming Supplier via the D0010.

The Outgoing Supplier shall, for traditional meters, send validated Customer Own Transfer Reads to the outgoing Data Service via the D0010.

The Supplier shall, for traditional meters, be able to receive estimated register reads from the Data Service, validate the reads and maintain records accordingly. Where the reads provided are not in line with the Suppliers expectation they should initiate the Agreed Reads process.

2.6 Data Collection Requirements

The Supplier shall be able to receive a notification from Advanced Data Service of a failure to obtain a meter reading via the D0004.

The Supplier shall be able to receive and process a notification from Data Service to investigate a potentially faulty metering system via the D0001 and action as required in line with the existing fault process.

The Supplier shall be able to receive a notification from Smart Data Service of a failure to obtain a meter reading via the D0004.

The Supplier shall send Supplier sourced register reading(s) for Traditional and Advanced meters (where required), however sourced, to the Data Service via the D0010.

The Supplier shall publish Supplier sourced cumulative readings for Smart and, where required, Advanced Metering Systems to the Data Service via the IF/PUB-041.

The Supplier shall publish a Supplier Advisory Notification via the IF/PUB-024 on the DIP where the Supplier receives an alert of vacant site, no comms, remote disconnection or reconnection. Notifications can be removed by Suppliers re-sending the Notification with a revised Expiry Date (for the same Event Type-MSID combination).

2.7 Data Processing Requirements

The Supplier shall obtain Load Shape Data via the IF/PUB-022 and IF/PUB-023 on the DIP or via static data published to a publically accessible URI.

The Supplier shall obtain validated UTC Period Level Consumption Data, sent by the Data Service, on the DIP using the IF/PUB-021 and use as appropriate. Supplier shall be aware that Data Service will provide improved estimates/ actual data on receipt of consumption data, meter reads or updated MTDs.

The Supplier shall obtain validated UTC Period Level Reactive Data, sent by the Data Service via IF/PUB-021 and use as appropriate. The Supplier shall be aware that Data Service will provide improved estimates/ actual data on receipt of consumption data, meter reads or updated MTDs.

The Supplier shall obtain Notification of Defaulted UTC Settlement Period Consumption Data provided by Central Settlements via the IF/PUB-013 on the DIP and maintain records accordingly. The Supplier may choose to use the characteristics data to derive and validate the load shape used for the default consumption values. In the case of Advanced/UMS segments it shall be noted that the GSP Group ID will not be required to determine the load shape.

The Supplier shall obtain UTC Settlement Period Consumption Data Rejections, sent by Central Settlements on the DIP, via the IF/PUB-014 and maintain records accordingly.

The Supplier shall, where required, use consumption data received from the Data Service to reconcile data received from BSC Central Systems.

The Supplier shall obtain and process cumulative meter reads, sent by the Data Service (Smart and Advanced meters only), on the DIP, via the IF/PUB-041.

The Supplier shall be able to receive register readings for Traditional Meters sent by the Data Service via the D0010.

2.8 Annual Consumption Requirements

The Supplier shall obtain the Annual Consumption, Annual Consumption Quality and Annual Consumption Effective From Date, sent by Market-wide Data Service (MDS) on the DIP, via the IF/PUB-040, maintain records accordingly and use in Suppliers internal processes as required.

The Supplier shall identify circumstances where it may be more appropriate for the Data Service to utilise a Supplier Nominated Annual Consumption (SNAC) rather than the Annual Consumption provided by the MDS (e.g. following a change of tenancy).

The Supplier shall determine any SNAC period of theft, meter faults, vacant sites value, using the best information available so as to ensure the SNAC is as reflective of the customers anticipated consumption as possible.

The Supplier shall, where required, publish the SNAC on the DIP, using the IF/PUB-024.

2.9 New Connection Requirements

Supplier must request LDSO to create a new MSID when a new Connection is required. Supplier will need to specify the anticipated: Connection Type, Energy Direction, Metered/Un-Metered Indicator & Market Segment required for the new MSID.

Where a new Connection is required for a Whole Current Connection Type, the Supplier shall advise the LDSO of the Market Segment for the new MSID in anticipation of the metering to be installed.

The Supplier shall be able to obtain registration details for an Initial Registration via the IF/PUB-001 on the DIP and maintain records accordingly.

2.10 Disconnection Requirements

Supplier must identify that a disconnection is required, following existing internal processes.

Supplier must be able to request the LDSO to disconnect a Meter Point via the appropriate interface

Supplier must be able to receive a rejection to the disconnection request from the LDSO via the appropriate interface and action, as appropriate, based on the rejection reason.

Supplier must be able to receive confirmation of disconnection of an MSID via the appropriate interface and maintain records accordingly.

The Supplier shall obtain Agent de-appointment notifications via the IF/PUB-037 on the DIP and maintain records accordingly.

2.11 Change of Registration Data Requirements

The Supplier shall obtain MPL (Meter Point Location) address/ GSP Group ID updates via the IF/PUB-018 on the DIP and maintain records accordingly. Supplier shall consider if there are any impacts on Agent appointments.

The Supplier shall obtain domestic premises indicator updates via the IF/PUB-018 on the DIP and maintain records accordingly. Supplier shall consider if there is any impact on the Consent Granularity Indicator.

The Supplier shall be able to publish Consent Granularity Indicator updates on the DIP via the IF/PUB-025, following customer notification of a change in consent, review following domestic premises indicator update or installation of a new Smart meter.

The Supplier shall obtain Consent Granularity Indicator updates via the IF/PUB-026 on the DIP and action as appropriate.

The Supplier shall be able to obtain DUoS Tariff ID updates via the IF/PUB-018 on the DIP.

The Supplier shall be able to obtain Related MSID updates via the IF/PUB-020 on the DIP and maintain records accordingly.

The Supplier shall be able to obtain Energy Direction updates via the IF/PUB-018 on the DIP and maintain records accordingly.

The Supplier shall be able to obtain Metered Status updates via the IF/PUB-018 on the DIP and maintain records accordingly.

The Supplier shall, where changes to Import/Export linkages are required, publish an Import/ Export linkage update to SMRS via the IF/PUB-019 on the DIP.

The Supplier shall be able to obtain Import/Export linkage updates via the IF/PUB-020 on the DIP and maintain records accordingly.

The Supplier shall, where changes to legacy data items (Profile Class/SSC) are identified, publish a legacy data update to SMRS via the IF/PUB-025 on the DIP.

The Supplier shall obtain legacy data item (Profile Class/SSC) updates from SMRS via the app IF/PUB-026 on the DIP and maintain records accordingly.

The Supplier shall be able to obtain DCC enrolment updates via the IF/PUB-018 on the DIP and maintain records accordingly.

Supplier must, where required, request the LDSO to carry out the one time update to the Energy direction via a bilaterally agreed mechanism (eg SDEP or email)

Supplier must manage any rejections to the Energy Direction update and re-submit as appropriate

Supplier must be able to obtain Energy Direction updates via the appropriate interface on the Data Integration Platform and maintain records accordingly.

Supplier must, where required, request the LDSO to carry out the one time update to the Metered Status via a bilaterally agreed mechanism (eg SDEP or email).

Supplier must manage any rejections to the Metered Status update and re-submit as appropriate.

Supplier must be able to obtain Metered Status updates via the appropriate interface on the Data Integration Platform and maintain records accordingly.

Supplier must, where changes to Smart Metering System Operator (SMSO) are identified, publish an SMSO update to Registration Service via the IF/PUB-02.

Supplier must obtain SMSO updates from Registration Service via the appropriate interface on the IF/PUB-026.

Supplier must, where changes to Import/Export linkages are required, publish an Import/ Export linkage update to Registration Service via the IF/PUB-019.

Supplier must be able to obtain Import/Export linkage updates via the IF/PUB-020 and maintain records accordingly.

Supplier must, where changes to legacy data items (Profile Class/SSC) are identified, publish a legacy data update to Registration Service via the appropriate interface on the Data Integration Platform

Supplier must obtain legacy data item (Profile Class/SSC) updates from Registration Service via the appropriate interface on the Data Integration Platform and maintain records accordingly

Supplier must be able to obtain DCC enrolment updates via the appropriate interface on the Data Integration Platform and maintain records accordingly

2.12 Change of Connection Type/Market Segment Requirements

The Supplier shall, where it identifies that new Agents are needed, trigger Service Appointments using the Change of MOA and Change of Data Service processes, with a scenario of "SEG".

The Supplier shall work closely with all parties involved to ensure that the Target Date will be achieved. If Supplier is informed that the date has had to be moved Supplier shall resubmit any Service Appointments for the new Target Date.

The Supplier shall obtain Connection Type updates from SMRS via the IF/PUB-043 on the DIP and maintain records accordingly. Supplier shall monitor for these updates after the agreed target work date and liaise with LDSO to ensure a prompt update.

The Supplier shall obtain Market Segment updates from SMRS via the IF/PUB-044 on the DIP and maintain records accordingly. Supplier shall monitor for these updates after the agreed target work date and liaise with MOA/LDSO, as appropriate, to ensure a prompt update.

Supplier must identify when a Change of Connection Type or Market Segment is required following a customer request for change to the connection/metering. The Supplier must liaise with the customer, LDSO and MOA as appropriate to coordinate the change and agree a target work date.

Supplier must receive confirmation from the LDSO of the agreed target work date for any Change to Connection Type requests via a bilaterally agreed communication method.

2.13 Registration Monitoring and Notification Requirements

The Supplier shall obtain de-appointment notifications for any Secondary Related MSIDs and/or Associated Export MSIDs, sent from SMRS (following MSID alignment monitoring) on the DIP, via the IF/PUB-037 and maintain records accordingly. Supplier shall expect to receive automatic notification of the correct Agent.

The Supplier shall obtain appointment notifications for any Secondary Related MSIDs and/or Associated Export MSIDs, sent from SMRS (following MSID alignment monitoring) on the DIP, via the IF/PUB-036 and maintain records accordingly.

The Supplier shall obtain Missing Agent Advisory notifications, sent from SMRS on the DIP, via the IF/PUB-045 and investigate why no Agent has been appointed. If necessary Supplier shall trigger a new Agent appointment.

The Supplier shall obtain Invalid Market Segment Advisory notifications, sent from SMRS on the DIP, via the IF/PUB-045. Supplier shall investigate with the MOA and/or LDSO to agree the necessary action to resolve the mismatch of Connection Type to Meter Type combination.

The Supplier shall obtain Inconsistent Consent Advisory notifications, sent from SMRS on the DIP, via the IF/PUB-045 and update the Domestic Indicator or Consent Granularity as appropriate.

2.14 Consumption Amendment Requirements

The Supplier shall identify when an Override Read is required where it identifies that the consumption issued to settlement is incorrect, but can be amended pre RF by issuing a replacement meter read (e.g. following a period of meter faults, vacant sites).

The Supplier shall determine the Override Read using the best information available so as to ensure the resulting consumption is as reflective of the customers anticipated consumption as possible.

The Supplier shall publish Override Reads to the Data Service and LDSO via the IF/PUB-041 on the DIP.

The Supplier shall identify when a Consumption Amendment is required where it identifies that the consumption issued to settlement is incorrect and cannot be amended by issuing a replacement meter read (e.g. Theft).

The Supplier shall determine the gross Consumption Amendment required and period impacted, using the best information available, so as to ensure the resulting consumption is as reflective of the customers anticipated consumption as possible.

The Supplier shall issue a Dispute, where a Consumption Amendment is required post RF and the materiality is greater than the Dispute criteria. Where it is post RF and the materiality is less than the Dispute criteria no further action can be taken by the Supplier.

The Supplier shall check that the Consumption Amendment is over the minimum materiality criteria for any pre-RF amendments. If it is less than the minimum materiality criteria, no further action can be taken by the Supplier.

The Supplier shall publish Consumption Amendments to the Data Service on the DIP via the IF/PUB-027.

The Supplier shall obtain Consumption Amendment rejections, sent by the Data Service on the DIP, via the IF/PUB-028 and action as appropriate. If the amendment

cannot be applied because it has failed the Maximum Permissible Value threshold, then Supplier shall consider raising a Dispute.

The Supplier shall obtain accepted Consumption Amendments with Consumption and Reactive data (where appropriate), sent by the Data Service on the DIP, via the IF/PUB-021 and maintain records accordingly.

2.15 Off Peak Declaration Requirements

The Supplier shall, where required (i.e. where a customer has not consented to share UTC Settlement Period Consumption data), for switched load tariff (e.g. Economy 7/ Economy 10) sites, with a Smart Meter, calculate the Off-peak Declaration proportion based on the configurable register readings for a given day.

Where readings are not available the Supplier shall provide an estimate based on historical consumption, or if none available, using their best reasonable estimate. Suppliers shall provide an updated Off-peak Declaration if better data is received prior to the Final Settlement Run.

The Supplier shall, where required for switched load tariff (e.g. Economy 7/ Economy 10) sites, with a Smart Meter, publish a Supplier Advisory Notification via the IF/PUB-024 on the DIP notifying the Off-peak Declaration proportion for each Settlement Day. Notifications shall be provided within D+3 days.

The Supplier shall, where required for switched load tariff (eg. Economy 7/ Economy 10) sites, maintain records of the basis for their Off-peak declaration for each day, for audit purposes.

2.16 Additional BM Unit Mapping

Where a Supplier wants to allocate a Metering System to an Additional BM Unit rather than the Base BM Unit, or change the BM Unit allocation, the Supplier shall notify BSC Central Systems of this change, together with the Effective From Settlement Date, via the D0297 where the Metering System is Registered in the MHHS Arrangements.

3. Interface and Timetable Information

3.1 Industry Standing Data Activities

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.1		Receive notification of ISD Update	ISD	Supplier	IF/PUB-047 Notification of the Publication of a Downloadable Asset	DIP Interface
3.1.2	Following 3.1.1	Access ISD data using Distribution Delivery URI	Supplier	ISD	Distribution Delivery URI	
3.1.3	Following 3.1.2	Validate and Store ISD Data	Supplier		Internal Process	
3.1.4	If data not readable and / or incomplete.	Send notification and await receipt of ISD data flows.	Supplier	ISDM	P0035 Invalid Data.	Electronic or other method, as agreed.
3.1.5	Following 3.1.3	Ensure all ISD affecting the accuracy of Settlement is accurately entered and used in performing its functions.[2]	Supplier			Internal Process.
3.1.6	After ISD re-publish.	Receive notification of ISD Update	ISD	Supplier	IF/PUB-047 Notification of the Publication of a Downloadable Asset	DIP Interface

[2] The Supplier must utilise Industry Standing Data to identify the relevant DIP Participant ID/Market Role or Market Message Market Participant ID/Role Code, as appropriate, to be used when communicating over the DIP/DTN.

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.1.7		Accesses revised ISD data.	ISDM	Supplier	Distribution Delivery URI	Electronic or other method, as agreed.
3.1.8	As soon as possible after data in correct format.	Update relevant database or records.	Supplier			Internal Process.

3.2 Registration Activities - Appointment of a Data Service

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.2.1	As required	Send Initial Appointment Request. The Supplier shall ensure the chosen Data Service is correct based on Connection Type and meter type.	Supplier	SMRS	IF/PUB-031 Supplier Agent Appointment Request Effective From Date, for appointments, must be between 1-28 days in the future	DIP Interface
3.2.2	Within 1 hour of 3.2.1, where Initial Appointment is rejected.	Send notification that Initial Appointment has been rejected.	SMRS	Supplier	IF/PUB-032 SMRS Supplier Agent Appointment Request Response	DIP Interface
3.2.3	As soon as reasonably practicable following receipt of the notification referenced in 3.2.2.	Manage rejection of Initial Appointment Request Once resolved initiate new Appointment and restart process from step 3.2.1.	Supplier			Internal Process
3.2.4	Within 1 hour of 3.2.1, where Initial Appointment is accepted.	Send notification that the Initial Appointment has been accepted.	SMRS	Supplier	IF/PUB-032 SMRS Supplier Agent Appointment Request Response	DIP Interface
3.2.5	Within 1 hour of response from Agent notifying that Appointment is rejected	Notify Appointment rejection	SMRS	Supplier New Data Service	IF/PUB-035 SMRS Appointment Status Notification	DIP Interface
3.2.6	As soon as reasonably practicable following receipt of the notification in 3.2.5.	Manage rejection of Appointment Once resolved initiate new Appointment and restart process from step 3.2.1.	Supplier			Internal Process

3.2.7	Within 1 hour of response from Agent notifying that Appointment is accepted	Publish Appointment details	SMRS	Supplier, New Data Service And SVA MOA	IF/PUB-035 SMRS Appointment Status Notification	DIP Interface
3.2.8	Following 3.2.6 and Secured Active notification from the ERDS.	Publish notification of Appointment and Meter Technical Details And Publish Data Service de-appointment notification	SMRS	Import and Export Suppliers LDSO SVA MOA Old Data Service	IF/PUB-036 SMRS Notification of Supplier Agent Appointment & Supporting Info Notification of Appointment IF/PUB-037 SMRS Notification of Supplier Agent De-Appointment	DIP Interface
3.2.9	Within 1 hour following Notification of successful De-Appointment	Send Cumulative Reading and any relevant Register Readings	Old Data Service	New Data Service, Supplier	IF/PUB-041 Smart/Advanced Readings; or D0010 Meter Readings for a Traditional Meter	DIP Interface DTN Message

3.3 Change of Supplier Readings – Smart Meters

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.1	On SSD	Attempt Meter read	New Supplier Old Supplier		Midnight UTC reads for Total Cumulative and all active Time of Use Settlement Registers, from the Daily Read Logs	Internal Process
3.3.2	Within 5 WD of SSD if actual data recovered	Send actual midnight UTC readings for cumulative and time-of-use settlement registers.	Old Data Service	New Supplier New Data Service Old Supplier	IF/PUB-041 Smart / Advanced Readings	DIP Interface
3.3.3	Within 5WD of SSD if no data recovered from Smart Meter, or Smart Meter is known non-communicating	Send estimated midnight UTC readings for cumulative and time-of-use settlement registers. See BSCP701 for details.	Old Data Service	New Supplier New Data Service Old Supplier	IF/PUB-041 Smart / Advanced Readings	DIP Interface
3.3.4	By SSD+5WD, where Old Supplier has obtained actual readings, directly and from Old Data Service	Validate reads. If the data is valid then issue actual register level readings to New Supplier. Otherwise commence D0300 process as detailed in the REC.	Old Supplier	New Supplier	D0010 Meter Readings	DTN Message

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.3.5	By SSD+5WD, where Old Supplier has not obtained actual readings directly but has received estimates/actuals from Old Data Service	Issue register level readings to New Supplier, generating estimates where required	Old Supplier	New Supplier	D0010 Meter Readings	DTN Message
3.3.6	By SSD+5WD	Validate Actuals/Estimates received from Old Data Service against any data retrieved directly from the Meter and publish cumulative register read	New Data Service	New Supplier	IF/PUB-041 Smart / Advanced Readings	DIP Interface
3.3.7	By 2 WD after readings received from Old Supplier and New Data Service	Validate readings received using data from Old Data Service, New Data Service, Old Supplier and directly from the Meter. If the data is inconsistent then commence D0300 process as detailed in the REC.	New Supplier			Internal Process

3.4 Change of Supplier Reads – Traditional Meters with Customer Own Read

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.4.1	By SSD+5WD	Where New Supplier chooses to use a Customer Own Read (COR), send to Old Supplier. COR read shall be taken between SSD-5 and SSD+5 and shall be deemed to have been taken on SSD	New Supplier	Old Supplier	D0010 Meter Readings	DTN Message
3.4.2	On receipt of D0010 from New Supplier, within 2WD	Validate reading based on meter read history. If valid, share with New Supplier and Old Data Service. Otherwise, advise New Supplier only.	Old Supplier	New Supplier Old Data Service	D0010 Meter Readings	DTN Message
3.4.3	On receipt of D0010 from Old Supplier, within 2WD	Forward reading (marked as valid by Old Supplier) to new Data Service to initiate data collection activities as per BSCP 701	New Supplier	New Data Service	D0010 Meter Readings	DTN Message
3.4.4	Following 3.4.2 at SSD + 6WD where reading is invalid	Continue as 3.5.1	Old Data Service			

3.5 Change of Supplier Reads – Traditional Meters with no Customer Own Read

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.5.1	5WD after SSD, if no customer read received	Generate closing read estimates, as per BSCP701, for settlement registers and share with Supplier and New Data Service. If a customer read (for SSD) is received after estimation has started, this must be used to commence data processing activities.	Old Data Service	New Data Service Old Supplier	D0010 Meter Readings	DTN Message
3.5.2	2WD after 3.5.1	Validate estimated readings. If invalid commence D0300 process as defined in the REC.	Old Supplier			Internal Process
3.5.3	On receipt of D0010 from Old Data Service, by SSD+5WD	Forward estimates to New Supplier and Commence data collection activities as per BSCP701	New Data Service	New Supplier	D0010 Meter Readings	DTN Message
3.5.4	On receipt of D0010 from New Data Service, if no customer read (for SSD) received by SSD+5WD	Validate estimated readings. If invalid commence D0300 process as defined in the REC.	New Supplier			Internal Process

Change of Supplier Reads for ‘opted out’ Advanced Meters where access to HH data is not consented should follow the same process as in section 3.5

3.6 Identification and Management of Long Term Vacant Sites

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.1	Following receipt of second D0004 from Data Service	Identification of site as Long Term Vacant in accordance with Appendix 4.1.1. Establish start date for the Long Term Vacant period in accordance with 4.1.2.	Supplier		Appendix 4.1.1 – Identification of a site as Long Term Vacant	Internal Process.
3.6.2	On request by LDSO	Send details of Long Term Vacant Sites	Supplier	LDSO	P0221 'Notification of Long Term Vacant Site'	As agreed between Supplier and LDSO
3.6.3	Following 3.6.1	Send notification of zero consumption where the Effective From Date shall be the start date for the period of Long Term Vacant treatment. Optional - Send reading obtained through entry via a warrant if appropriate with a read date of the Effective From Date of the zero EAC.	Supplier Supplier	Data Service Data Service	IF/PUB-024 – Supplier Advisory Notification to Data Service Event Code: SN-Vacant D0010	DIP Interface Electronic or other method as agreed.
3.6.4	Following 3.6.3	Send zero consumption	Data Service	Supplier MDS	IF/PUB-021 - UTC Settlement Period Consumption Data	DIP Interface

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.6.5	No later than 215 calendar days from identification or last confirmation of site as LTV	Confirm that site remains Long Term Vacant in accordance with Appendix 4.1.3	Supplier		Appendix 4.1.3 – Confirmation that the Site remains Long Term Vacant.	

3.7 Identification of Sites that no longer qualify for Long Term Vacant Treatment

REF	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.7.1	As appropriate	Supplier identifies that site no longer qualifies for Long Term Vacant treatment in accordance with appendix 4.1.4. Establish end date for the Long Term Vacant period in accordance with appendix 4.1.5	Supplier		Appendix 4.1.4 - Identification that a site no Longer Qualifies for Long Term Vacant Treatment. Appendix 4.1.5 - End Date for the Long Term Vacant Period.	Internal Process
3.7.2	If Supplier has a Meter Reading for end of LTV Period	Send Cumulative Meter Reading	Supplier Supplier	Data Service Data Service	IF/PUB-041 – Smart/Advanced Readings D0010 – Meter Readings	DIP Interface Electronic or other method, as agreed
3.7.3	If Supplier has no Meter Reading	If Supplier has no Meter reading to send, send Non-zero value	Supplier	Data Service	IF/PUB-024 – Supplier Advisory Notification to Data Service Event Code: SN-SupplierAC	DIP Interface
3.7.4	Following 3.7.3	Send non-zero data	Data Service	Supplier MDS	IF/PUB-021 – UTC Settlement Period Consumption Data	DIP Interface

3.8 Consumption Amendment/Override Reads

This process applies for Supplier-Initiated [Pre-RF] Consumption Amendments and Override Reads only.

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.1	Supplier identifies that an Override Read or Consumption Amendment is required.	Supplier identifies the Gross Volume and the Period the Consumption Amendment/Override Read relates to.	Supplier			Internal process
3.8.2	If consumption is post-RF and the Consumption Amendment meets the Trading Disputes Criteria	Raise Dispute request	Supplier	BSCCo	As per BSCP11	See BSCP11
3.8.3	If consumption is pre-RF and the Consumption Amendment meets an Agreed Minimum threshold, or for override reads	Issue Consumption Amendment Request Or Issue Override Reads	Supplier	Data Service	IF/PUB-027 Supplier Consumption Amendment Request IF/PUB-041 Smart/Advanced Readings	DIP interface
3.8.4	If MSID ownership validation fails OR If MPV validation fails	Issue Consumption Amendment rejection	Data Service	Supplier	IF/PUB-028 Supplier Consumption Amendment Request Response	DIP interface
3.8.5	On receipt of Consumption Amendment rejection	Issue revised Consumption Amendment request (Go to 3.5.4) OR Start BSC Disputes Process	Supplier	Data Service BSCCo	IF/PUB-027 Supplier Consumption Amendment Request As defined in BSCP11	DIP interface

REF.	WHEN	ACTION	FROM	TO	INFORMATION REQUIRED	METHOD
3.8.6	On successful MPV validation	Submit Validated Consumption Amendments	Data Service	Supplier BSC Central Systems LDSO	IF/PUB-021 UTC Settlement Period Consumption Data	DIP interface
3.8.7	If Validated Consumption Amendments are rejected	Issue rejection notification	BSC Central Systems	Supplier Data Service LDSO	IF/PUB-014 Rejected – UTC Settlement Period Consumption Data	DIP interface

4. Appendices

4.1 Identification and Management of Long Term Vacant Sites

4.1.1 Criteria for identifying site as Long Term Vacant

A Supplier may identify a site as Long Term Vacant if it meets all of the following four criteria:

1. The site is energised according to the Supplier Meter Registration Service (SMRS).

2. The Supplier:

   - has received from the Data Service at least two D0004 'Notification of Failure to Obtain a Reading' data flows, which are at least 75 calendar days apart and not more than 215 calendar days apart, with the J0024 'Site Visit Check Code' data item populated with code 02 'Site not Occupied';

   - and has not received any D0004s with the J0024 data item populated with anything other than:

     - 02 'Site Not Occupied'
     - 18 'Unsafe Premises'
     - 19 'Call not made on routine visit'
     - 20 'No Access'
     - 28 'Unable to gain access due to insufficient address details'

     in the interim; and

   - has not received any Meter register readings for that Metering System in the interim.

3. The Supplier has made proactive attempts to identify the owner of the property to obtain a Meter reading; proactive attempts could include contacting bodies such as estate agents, letting agents, councils or the land registry to find out who the owner is. If the Supplier supplies both gas and electricity, check to see if the same issues are occurring for the gas supply.

   When an owner is identified, attempts must then be made to contact them and obtain a reading. The Supplier may have its own way of meeting this criterion.

4. If the owner is already known, the Supplier must make attempts to contact them to arrange a Meter Reading. The Supplier must keep auditable records showing that all criteria have been met when identifying a site as Long Term Vacant.

If all the above criteria have been met, but the Supplier has evidence of consumption on the Metering System, the site must not be identified as Long Term Vacant.

4.1.2 Start Date for the Long Term Vacant Period

The Supplier shall identify the start date for the Long Term Vacant period (and its associated zero consumption) as the earlier of the following:

1. The date in the J0016 'Reading Date and Time' data item in the first D0004 received with the J0024 data item populated with code 02 ; or

2. Where a Customer has closed an account, the last consumption date for that Customer provided that:

   a) This is no more than 215 calendar days before the date of the first D0004 with the J0024 data item populated with the 02 code;

   b) No D0004s with the J0024 data item populated with anything other than the 02 code have been received between the Customer's last consumption date and the date of the first D0004 with J0024 data item populated with code 02 or 20;

   c) No Meter register readings for that Metering System have been received between the Customer's last consumption date and the date of the first D0004 with J0024 data item populated with code 02 or 20; and

   d) a Meter register reading is received for the Customer's last consumption date.

4.1.3 Confirmation that the Site remains Long Term Vacant

Where a Supplier has identified a site as Long Term Vacant and has instructed their Data Service to enter a zero value into Settlement, the Supplier must confirm that all the following criteria have been met to continue treating the site as Long Term Vacant:

1. The Supplier must receive a D0004 from the Data Service with the J0024 data item populated with the 02 code at least once every 215 calendar days for the Metering System; and

2. Has not received any D0004s with the J0024 populated with anything other than:

   - 02 ' Site Not Occupied'
   - 18 'Unsafe Premises'
   - 19 'Call not made on routine visit'
   - 20 'No Access'
   - 28 'Unable to gain access due to insufficient address details' in the interim; and

3. The Supplier must not have received any Meter register readings for that Metering System in the interim; and

4. At least once every 215 calendar days, the Supplier must make further proactive attempts to identify the owner of the property in order to obtain a Meter Reading or, if the owner is known, then the Supplier must continue to attempt to contact them to arrange a Meter Reading. Auditable records must be kept for all attempts to obtain a Meter Reading.

4.1.4 Identification that a site no Longer Qualifies as Long Term Vacant

A site will no longer qualify as Long Term Vacant if any of the following occur:

1. It has been longer than 215 calendar days since the Supplier has received a D0004 from the Data Service with the code 02 in the J0024 data item; or

2. The Supplier has not made any proactive attempts to try to find out who the owner of the property is and to obtain a Meter reading (examples of which are provided above) in the 215 calendar day period from the receipt of a D0004; or

3. The Supplier has received a D0004 with the J0024 data item populated with a code other than 02,18, 19, 20 or 28; or

4. The Supplier is aware of consumption on site, including where the Supplier has found or been informed of the owner of the site and has been able to obtain a Meter reading. This would include where a change of tenancy event had occurred.

If any of the above occur, the Supplier must no longer treat the site as Long Term Vacant and must notify the Data Service to enter a non-zero consumption into Settlement for the site in accordance with section 3.7.

In addition, the site should no longer qualify for Long Term Vacant treatment if the Supplier has an actual Meter reading. In this scenario, the Supplier should not have to inform the Data Service that the site no longer qualifies for Long Term Vacant treatment as this would have either been identified by the Data Service and the Data Service would have already processed the meter reading accordingly.

4.1.5 End Date for the Long Term Vacant Period

If the Supplier identifies that the site no longer qualifies for Long Term Vacant treatment it should determine the end date of the Long Term Vacant period as follows:

1. Where there has been a change of tenancy, then the date of the change of tenancy should be used as the end date for the Long Term Vacant period;

2. Where a Meter reading has been obtained, the day before the date of the Meter reading should be used as the end date for the Long Term Vacant period.

3. Where no Meter reading has been obtained (i.e. the Supplier has received a D0004 with the J0024 data item populated with something other than 02) then the date of the last D0004 with the J0024 data item populated with ‘02’ should be used as the end date for the Long Term Vacant period.

4. Where the Supplier has not attempted to read the Meter or make proactive attempts to find out the owner of the premises and obtain entry to take a Meter reading, then the date of the D0004 with the J0024 data item populated with 02 received the last time that the Supplier had made attempts to read the Meter and make proactive attempts to find out the owner of the premises would be used as the end date for the Long Term Vacant period.

If the Supplier does not have a Meter reading for the end of the Long Term Vacant period then the Effective From date for the non-zero consumption would be the day after the end date of the Long Term Vacant period.