



Please note: This is the redlined MDD Handbook which shows what has been amended and removed as part of the review carried out to preparation it for conversion it into the proposed new BSCP509 Appendix 2.

Market Domain Hand Book

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1 INTRODUCTION

1.1 Background

Market Domain Data (MDD) is the central repository of Supplier Volume Allocation (SVA) market information and is essential to the operation of the SVA Trading Arrangements as it includes critical information such as Standard Settlement Configurations, Profile Classes and GSP Groups which is common to all Market Participants.

The development of MDD was to ensure that all Market Participants work from the same version of data and that it is updated simultaneously. In order for the trading arrangements to operate efficiently it is essential that all parties utilise the correct data at all times. Therefore, the generation, maintenance and distribution of such data requires managing in a secure and auditable manner.

To meet this requirement the SVA Agent acts as the single, central repository for all such data and is responsible for its maintenance and distribution to Market Participants, Party Agents, BSC Agents and other interested parties.

The following Market Roles receive MDD and use it to update their internal systems to keep them in step with the rest of the market:

- Half Hourly Data Collector
- Non Half Hourly Data Collector
- Half Hourly Data Aggregator
- Non Half Hourly Data Aggregator
- SVA Agent
- Meter Operator
- SMR Agent
- Licensed Distribution System Operator
- Supplier.

These parties use the information distributed from MDD for a variety of purposes including:

- Calculation of profile coefficients by the SVAA;
- Construction of initial EAC values (i.e. splitting a ~~M~~metering ~~s~~System level across registers) by Suppliers; and
- Generation of default EAC values by NHHDA.

Note that the MDD application and the contents of the MDD database are owned by ~~ELEXON~~BSCCo. The application is maintained by ~~the Logica in its capacity as~~ SVA Agent (SVAA), which incorporates the role of Market Domain Data Manager (MDDM).

1.2 Purpose of this ~~Hand Book~~Document

This document is aimed at all Market Participants who use MDD and need to raise MDD Change Requests. The purpose of the document is to provide information on the data items and validation rules that apply to each MDD Entity.~~give an overview of the role of MDD in the electricity market and to provide guidance on how to prepare and submit changes to MDD. The document describes MDD changes, the constraints on data input into MDD and the validation rules that apply to MDD changes. It also explains the impact assessment and shespublishes processes associated with MDD.~~

1.3 MDD Format

Market Domain Data is held in a standalone database which is updated in accordance with details published by ~~ELEXONBSCCo~~. The MDD application produces a series of structured files that form the input to Market Participants' internal systems. The files consist of a series of groups of related information and require specialised programmes to interpret their contents. When MDD is updated, a new version of the files is created and is then distributed (Published) to the relevant parties.

MDD files can be identified by unique Data Transfer Catalogue (DTC) reference numbers.

The D0269 version of MDD is the complete set of data (excluding Teleswitch and BM Unit details which are distributed via the D0280 and D0299 flows respectively).

The D0270 contains only the incremental updates of the most recent version to be published.

Once received, the files are managed by the recipients, who are responsible for updating their systems in accordance with instructions from ~~ELEXONBSCCo~~. Details of the structure of the files are documented in the Data Transfer Catalogue (DTC) which is maintained by MRA Service Company (MRASCo.)

MDD is published approximately monthly.- A release schedule which states all MDD publish dates is available on the ELEXON websiteBSC Website~~However, the actual Publish schedule is dependent upon the volume and nature of the Change Requests received for each specific version. As a result there may be as few as two weeks or as many as six weeks between Publishes.~~

1.4 Code Subsidiary Documentation

The management of the MDD process is governed by the following BSC Procedures (BSCPs)~~and SVAA Service Line (SSL)~~.

Reference	Description
BSCP508	This document covers implementation of MDD Changes by the SVA Agent.
BSCP509	The purpose of this BSCP is to ensure that all changes to Market Domain Data are made in a controlled and auditable manner.
BSCP509 – MDD Entity FormsAppendix 1: MDD Entity Change Request Forms	Prescribed forms used by the Market Participants to specify which tables within MDD they wish to make changes to.
BSCP509 – Appendix 2: MDD Change Request Entity Validation	<u>This document provides details of the information required when completing the associated Entity forms for a MDD Change Request</u>

2 ACRONYMS AND DEFINITIONS

Terms used in this MDD Hand Book are defined as follows:

AA	Annualised Advance
AFYC	Average Fraction of Yearly Consumption
BM	Balancing Mechanism
BSC	Balancing and Settlement Code
BSCP	Balancing and Settlement Code Procedure
CRA	Central Registration Agent
DTC	Data Transfer Catalogue
EAC	Estimated Annual Consumption
EFSD	Effective from Settlement Date
ETSD	Effective to Settlement Date
GSP	Grid Supply Point
LDSO	Licensed Distribution System Operator
LLF	Line Loss Factor
LLFC	Line Loss Factor Class
MDD	Market Domain Data
MDDM	Market Domain Data Manager
MMT	Meter Timeswitch Meter Type
MPID	Market Participant Identification
MPR	Market Participant Role
MPT	Meter Payment Type
MTC	Meter Timeswitch Class
SMETS	Smart Metering Equipment Specifications
MTCPA	MTC for Distributor area
SMRA	Supply Meter Registration Agent
SSC	Standard Settlement Configuration
SVA	Supplier Volume Allocation
SVAA	Supply Volume Allocation Agent
TPR	Time Pattern Regime
VMTCLC	Valid MTC/LLFC e Combination
VMTCS	Valid MTC/SSC e Combination
VMTCLSC	Valid MTC/SSC/LLFC e Combination
VMTCLSPC	Valid MTC/SSC/LLFC/PC Combination

A detailed glossary of terms is provided in Appendix A.

3 MDD DATA ENTITIES

This section details the tables that are required for each MDD Change Request and the validation rules for each change. The tables shown are in the format that must be provided to the SVA Agent for data entry.

The key Entities and those that are most frequently updated by Market Participants are individually described in sections 3.1 to 3.32. Entities that are updated by annual data file loads, or which relate to information that is rarely changed are summarised in sections 3.34 to 3.36.

Note that the [BSCP509 Appendix 1MDD Entity Change Request Forms](#) should be read in conjunction with this section.

3.1 Entity 1 – Market Participant ID¹

Market Participant Id	Market Participant Name	Trading Party Id

Brief Description

Defines an organisation that participates in the GB electricity market. The Market Participant ID (MPID) must be unique. To ensure that the chosen MPID is unique please refer to the 'Market Participant' table within MDD or contact the ELEXON-BSCCo MDD Co-ordinator.

Guidance on Change Process

When choosing a new MPID, whether it is for a new Supplier ID, additional Supplier ID, or some other Role, the participant must select an ID with 4 alpha characters that is unique and has never previously been registered by another participant. In order to confirm that the ID chosen is acceptable the participant must liaise with the ELEXON-BSCCo MDD Co-ordinator. The Trading Party Id field is mandatory for Suppliers and should be the same as the Market Participant Id. Once registered, the Market Participant's ID cannot be changed, but the Market Participant Name may be updated.

Approved MDD changes for new Suppliers, new LDSOs, existing LDSOs and new Party Agents should be made in accordance with the criteria detailed in BSCP509 Section 4.2.~~described in section 7.5~~

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Market Participant ID	4	A	M	Liaise with the <u>ELEXON-BSCCo</u> MDD Co-ordinator to ensure that the chosen MPID is unique.
Market Participant Name	30 m Max. <u>(including spaces)</u>	A/N	M	The name of the market participant organisation.
Trading Party Id	4	A	O	For Suppliers, this field is mandatory and should be the same as the Market Participant Id unless otherwise agreed with BSCCo. For Market Participants who are not Suppliers, this field must be left blank.

Links to Other Entities

For Each Market Participant there must also be at least one Market Participant Role Code record (Entity 45).

¹ **Key:** Format: A=Alphabetic, N=Numeric, A/N=Alphanumeric, D=Date (dd-~~m~~mm-/yyyy), M/O: M=Mandatory, O=Optional

In the case of Suppliers (role code 'X'), there must also be a Base BM Unit ([Entity 61](#)) for every GSP Group.

3.2 Entity 2 – GSP Licensed Distribution System Operator

GSP Group Id	Market Participant Id	Market Participant Role Code	Effective From Date {MPR}	Effective From Settlement Date {GGD}	Effective To Settlement Date {GGD}

Brief Description

A party which is the holder of a Distribution Licence in respect of distribution activities within a GSP Group.

Guidance on Change Process

Approved MDD changes for new Suppliers, new LDSOs, existing LDSOs and new Party Agents should be made in accordance with the criteria ~~described in section 7.5~~ detailed in BSCP509 Section 4.2.

There are four individual steps that Parties are required to complete during the registration process of a new Licensed Distribution System Operator (LDSO) in MDD. In theory a Party could complete all four steps of the process in parallel, and in the same Publish of MDD. In practice, however, it is unlikely they would do this because of the time-scales involved in SVA Qualification Testing. It is more likely that the registration process of a new LDSO would take place over 2-3 separate MDD Publishes.

The individual steps involved in the registration of an LDSO are:

1. Submit Change Requests to create an association between new or existing Market Participant IDs of Role Codes 'P' for SMR Agent and 'R' for Distributor.
2. Submit Change Request to create SMR Agent and LDSO appointments for each GSP Group that the Distributor will operate in.
3. Submit a Change Request to add new MTC for Distributor and subsequent combinations if required.
4. Submit Change Request if new LLFCs are required.

Note: Individual Line Loss Factors are not held in MDD but the D0265 file will also need to be submitted to ~~ELEXON-BSCCo~~ in accordance with BSCP128.

The final stage in the LDSO registration process is the requirement to set up MTC and LLFC data (and associated combinations) in MDD. The LLFCs and corresponding D0265 file will be loaded into the ISRA systems.

Following SVA Qualification Testing, the MPID of the LDSO needs to be associated with the appropriate GSP Group(s) in the MDD system and subsequently entered into the ISRA system by the SVA Agent. At the same time the SMR Agent appointment data needs to be loaded into the MDD system.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The unique character identifier for the relevant GSP Group
Market Participant Id	4	A	M	The unique identifier for the Market Participant.
Market Participant Role Code	1	A/N	M	The assigned role code for the Market Participant (LDSO 'R').
Effective From Date {MPR}	1 1 0	D	M	The date on which the Market Participant was accredited as a Licensed Distribution System Operator.
Effective From Settlement Date {GGD}	1 1 0	D	M	The first Settlement Date on which the Market Participant became active as a Licensed Distribution System Operator within the GSP Group.
Effective To Settlement Date {GGD}	1 1 0	D	O	The last Settlement Date on which the Market Participant was active as a Licensed Distribution System Operator within the GSP Group.

Additional Validation
If a <u>Market</u> Participant has a Role code of R (LDSO), it must also have a Role code P (SMRA) with the same MPID, and vice versa.

Links to Other Entities
To add a new GSP Licensed Distribution System Operator, there must already be a Market Participant record (Entity 1) and Market Participant Roles (Entity 45).

3.3 Entity 3 – SVA Agent Appointment

GSP Group Id	Market Participant Id	Market Participant Role Code	Effective From Date {MPR}	Effective From Date {IAA}	Effective To Date {IAA}

Brief Description

An association between the MPID of an SVA Agent and the GSP Groups in which it is active.

Guidance on Change Process

Changes to this entity would occur at the direction of the BSCCo on the appointment of a new SVA Agent. Additionally, the introduction of new GSP Group Ids or merger of existing GSP Group Ids would initiate changes to this entity as directed by the BSCCo.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	Unique character identifier for the relevant GSP Group.
Market Participant Id	4	A	M	The unique identifier for the SVA Agent Market Participant.
Market Participant Role Code	1	A/N	M	The assigned role code 'G' for the SVA Agent Market Participant.
Effective From Date {MPR}	10 1	D	M	The first date on which the Market Participant was accredited as an SVA Agent.
Effective From Date {IAA}	10 1	D	M	The first day on which the Market Participant became active as the SVA Agent within the GSP Group.
Effective To Date {IAA}	10 1	D	O	The last day on which the Market Participant was active as the SVA Agent within the GSP Group.

Links to Other Entities

To add a new SVA Agent Appointment, there must already be a Market Participant record ([Entity 1](#)) and Market Participant Roles ([Entity 45](#)).

3.4 Entity 4 – SMR Agent Appointment

GSP Group Id	Market Participant Id	Market Participant Role Code	Effective From Date {MPR}	Effective From Date {PAA}	Effective To Date {PAA}

Brief Description

An association between the MPID of the Supplier Metering Registration Agent and the GSP Groups in which they operate.

Guidance on Change Process

Approved MDD changes for new Suppliers, new LDSOs, existing LDSOs and new Party Agents should be made in accordance with the criteria [detailed in BSCP509 Section 4.2](#). ~~described in section 7.5~~

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The unique identifier for the relevant GSP Group.
Market Participant Id	4	A	M	The unique identifier for the Market Participant.
Market Participant Role Code	1	A/N	M	The assigned role code for the Market Participant (SMRA 'P').
Effective From Date {MPR}	10 1	D	M	The date on which the Market Participant was accredited as a SMR Agent.
Effective From Date {PAA}	10 1	D	M	The first day on which the Market Participant became active as a SMR Agent within the GSP Group
Effective To Date {PAA}	10 1	D	O	The last day on which the Market Participant became active as a SMR Agent within the GSP Group

Additional Validation

If a Participant has a Role code of R (LDSO), it must also have a Role code P (SMRA) with the same MPID, and vice versa.

Links to Other Entities

To add a new SMR Agent Appointment, there must already be a Market Participant ~~record~~ (Entity 1) and Market Participant Roles (Entity 45).

3.5 Entity 11 – Average Fraction of Yearly Consumption Set

GSP Group Id	Profile Class ID	Standard Settlement Configuration Id	Effective From Settlement Date {VSCPC}	Effective From Settlement Date {AFOYCS}	Effective To Settlement Date {AFOYCS}

Brief Description

A set of data specifying how average consumption is split across registers for a particular GSP Group, SSC and Profile Class.

Guidance on Change Process

This data may need to be created in a number of different circumstances including:

- When a new SSC is created, in which case there may also be associated changes to many other entities, (see the [Data-Entity Diagram](#) in [Section 4.2.4](#) and guidance on [Entity 32](#)).
- When an existing SSC is introduced into a new GSP Group or Profile Class, in which case there would be associated changes to Average Fraction of Yearly Consumption, GSP Group [Daily](#) Profile Class Average EAC and possibly MTC-related entities.
- ~~When the~~ The SVAA recalculates AFYC values for an existing SSC, in accordance with the rules in Annex S-2 of the [BSCode](#). In the ~~these~~ cases there would be associated changes to Average Fraction of Yearly Consumption, GSP Group [Daily](#) Profile Class Average EAC and GSP Group Profile Class Default EAC.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The identifier for the chosen GSP Group.
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
Standard Settlement Configuration Id	4	N	M	The identifier for the relevant Standard Settlement Configuration.
Effective From Settlement Date {VSCPC}	10 1	D	M	The first Settlement Date on which the Valid Settlement Configuration Profile Class is active.
Effective From Settlement Date {AFOYCS}	10 1	D	M	The first Settlement Date on which the Average Fraction of Yearly Consumption Set is active.
Effective To Settlement Date {AFOYCS}	10 1	D	O	The last Settlement Date on which the Average Fraction of Yearly Consumption Set is active.

Links to Other Entities

A new Average Fraction of Yearly Consumption Set can only be created if there is an existing GSP Group ([Entity 18](#)) and a linked Valid Settlement Configuration Profile Class ([Entity 40](#)).

3.6 Entity 12 – Average Fraction of Yearly Consumption

GSP Group Id	Profile Class Id	Standard Settlement Configuration Id	Effective From Settlement Date {VSCPC}	Effective From Settlement Date {AFOYCS}	Time Pattern Regime Id	Average Fraction of Yearly Consumption	Alternative Average Fraction of Yearly Consumption

Brief Description

The fraction of the annual demand that a profile will allocate to the Settlement Periods covered by a TPR.

Guidance on Change Process

This data may need to be created in a number of different circumstances including:

- When a new SSC is created, in which case there may also be associated changes to many other entities; (see the [Data-Entity Diagram](#) in [Section 4.2.4](#) and guidance on [Entity 32](#)).
- When an existing SSC is introduced into a new GSP Group or Profile Class, in which case there would be associated changes to Average Fraction of Yearly Consumption Set, GSP Group [Daily](#) Profile Class Average EAC and possibly MTC-related entities.
- ~~When the~~ SVAA recalculates AFYC values for an existing SSC, in accordance with the rules in Annex S-2 of the [BSCode](#). In the ~~these~~ cases there would be associated changes to Average Fraction of Yearly Consumption Set, GSP Group [Daily](#) Profile Class Average EAC and GSP Group Profile Class Default EAC.

Default values will be used initially to derive the Average Fraction of Yearly Consumption until Actual data is available in Settlement to recalculate. These defaults can be derived by summing the appropriate data on the BSC Website in the MDD table 'Default Period Profile Class Coefficient' for all Profile Classes except 2 and 4. If an AFYC is wished to be raised for Profile Classes 2 or 4 then this can be requested through the MDD Co-ordinator at BSCCo.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The identifier for the chosen GSP Group.
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
Standard Settlement Configuration Id	4	N	M	The Id for the relevant Standard Settlement Configuration.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Effective From Settlement Date {VSCPC}	10±	D	M	The first Settlement Date on which the Valid Settlement Configuration Profile Class is active.
Effective From Settlement Date {AFOYCS}	10±	D	M	The first Settlement Date on which the Average Fraction of Yearly Consumption Set is active.
Time Pattern Regime Id	5	N	M	The Id for the relevant Time Pattern Regime.
Average Fraction of Yearly Consumption	1.6	N	M	A numeric figure, with up to 6 decimal places, which must be a positive value between 0 and 1 inclusive.
Alternative Average Fraction of Yearly Consumption	1.6	N	00	A numeric figure, with up to 6 decimal places, which must be a positive value between 0 and 1 inclusive.

Additional Validation

The values of Average Fraction of Yearly Consumption (across all Time Pattern Regime Ids within an AFOYCS) must sum to 1.

Links to Other Entities

A new Average Fraction of Yearly Consumption can only be created if the ~~re is an existing following related entities exist~~ Average Fraction of Yearly Consumption Set (Entity 11) and Valid Measurement Requirement Profile Class (Entity 39).

3.7 Entity 13 – GSP Group Daily Profile Class Average EAC

GSP Group Id	Profile Class Id	Standard Settlement Configuration Id	Effective From Settlement Date {VSCPC}	Effective From Settlement Date {GGPCAE}	Effective To Settlement Date {GGPCAE}	Researched Average EAC

Brief Description

A classification of profile which represents an exclusive category of customers whose consumption can be reasonably approximated to a common profile for the purpose of attributing an EAC or Annualised Advance to individual half hours for Settlement purposes.

Guidance on Change Process

This data may need to be created in a number of different circumstances including:

- When a new SSC is created, in which case there may also be associated changes to many other entities, (see the Data-Entity Diagram in Section 4.2.4 and guidance on Entity 32).
- When an existing SSC is introduced into a new GSP Group or Profile Class, in which case there would be associated changes to Average Fraction of Yearly Consumption Set, Average Fraction of Yearly Consumption,, GSP Group Daily Profile Class Average EAC and possibly MTC-related entities.
- Default GSP/PC EACs can be initially used as the 'Researched Average EAC' until Actual data is available in Settlement to recalculate.

Field Details

Fieldname	No. of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The identifier for the chosen GSP Group.
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
Standard Settlement Configuration Id	4	N	M	The Id for the relevant Standard Settlement Configuration.
Effective From Settlement Date {VSCPC}	101	D	M	The first Settlement Date on which the Valid Standard Settlement Configurations for a Profile Class is active.
Effective From Settlement Date {GGPCAE}	101	D	M	The first Settlement Date on which the GSP Group <u>Daily</u> Profile Class Average EAC is active.

Field Details				
Fieldname	No. of Chars	Format	M/O	Description/Comments
Effective To Settlement Date {GGPCAE}	10 ±	D	O	The last Settlement Date on which the GSP Group <u>Daily</u> Profile Class Average EAC is active.
Researched Average	12.1	N	M	A numeric figure, zero or positive value.

Links to Other Entities
<p><u>A new GSP Group Daily Profile Class Average EAC can only be created for an existing. There must be a valid GSP Group Id (Entity 18) and a parent Valid Settlement Configuration Profile Class (Entity 40).- There must be a parent Valid Settlement Configuration Profile Class (Entity 40).</u></p>

3.8 Entity 17 – Line Loss Factor Class (LLFCs)

Market Participant Id	Market Participant Role Code	Effective From Settlement Date {MPR}	Line Loss Factor Class Id	Line Loss Factor Class Description	MS Specific LLF Class Indicator	Effective From Settlement Date {LLFC}	Effective To Settlement Date {LLFC}

Brief Description

The reference for a Line Loss Factor, within a Distributor's system, that applies to a group of ~~M~~etering ~~S~~ystems.

Guidance on Change Process

Licensed Distribution Businesses are required to register Line Loss Factor Classes in MDD in accordance with the processes outlined in [BSCP509](#) and [BSCP128](#).

When the description of an existing Line Loss Factor Class is changed, no other details must change (including Effective From Settlement Date LLFC). The change is applied as a direct overwrite of the previous description, i.e. no dates will be affected.

When creating a new LLFC in MDD the distributor must also provide the amended D0265 detailing the LLFs which will coincide with the Effective From Settlement Date of the new LLFC. A Change Request raising a new LLFC cannot be implemented into MDD without a supporting D0265.

When raising new LLFCs, it is the responsible of LDSOs, or BSC Parties to ensure the appropriate Combinations are entered into MDD within the relevant timescales.

When a Distribution Business discontinues an LLFC in MDD it is the responsibility of the Distribution Business to liaise with their SMRA and ensure that any Metering Systems that were previously registered to that LLFC have been migrated to another LLFC. If the Metering Systems are not migrated, validation warnings will be created by the ISRA system. In addition to this the LLFs will automatically default to 1.

The discontinuation of a Line Loss Factor Class is done by giving the LLFC an Effective To Settlement Date. The LLFC will remain valid for all Settlement Dates up to and including the Effective To Settlement Date {LLFC}, and so be valid for reconciliation runs.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Market Participant Id	4	A	M	The identifier for the Market Participant.
Market Participant Role Code	1	A/N	M	One character code for Distributor role (R).
Effective From Settlement Date {MPR}	10 1	D	M	It must be the date the Distributor became active in the M market market , i.e. the date provided in the Market Participant Role table.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Line Loss Factor Class Id	3	N	M	It must be within the numerical range 0 – 999.
Line Loss Factor Class Description	30 Max. (including spaces)	A/N	M	
MS (Metering System) Specific LLF Class Indicator	1	A	+ M	See details in Additional Validation below.
Effective From Settlement Date {LLFC}	10 +	D	M	The first Settlement Date on which the Line Loss Factor Class is active.
Effective To Settlement Date {LLFC}	10 +	D	O	The last Settlement Date on which the Line Loss Factor Class is active.

Additional Validation
<p>MS (Metering System) Specific LLFC Indicator must take one of the following values:</p> <p>A - General LLFC for Import Active Energy</p> <p>B - MS Specific LLFC for Import Active Energy</p> <p>C - General LLFC for Export Active Energy</p> <p>D - MS Specific LLFC for Export Active Energy</p>
<p><u>When raising or end dating a LLFC, the Effective From/To Settlement Date {LLFC} must be greater than or equal to the MDD Go-live date.</u></p> <p>When a Line Loss Factor Class is discontinued, all valid child MTC combinations (<u>Entity 55, Entity 56 and Entity 63</u>)Valid MTC LLFC Combinations and Valid MTC SSC LLFC Combinations joined with the LLFC must also be end dated <u>using a date no later than</u> with the <u>Effective To Settlement Date {LLFC}</u>same end date.</p>

Links to Other Entities
<p>There must be a <u>Market Participant (Entity 1)</u> and a Market Participant Role (<u>Entity 45</u>) with Role Code 'R' assigned to the Market Participant.</p>

3.9 Entity 18 – GSP Group

GSP Group Id	GSP Group Name	Region Id

Brief Description

A set of Distribution Systems which form a distinct electrical system and are treated as a group for the purpose of allocating errors in ~~s~~Settlement i.e. GSP Group Correction.

Guidance on Change Process

Changes to this entity would occur on the introduction of a new GSP Group or Merger of existing GSP Groups as directed by the BSC Panel or delegated BSC Panel Committee.

There would be associated changes to SVA Agent Appointment, SMR Agent Appointment, Average Fraction of Yearly Consumption Set, Average Fraction of Yearly Consumption, Base BM Unit for Supplier in GSP Group, GSP Group Daily Profile Class Average EAC, GSP Group Profile Class Default EAC, GSP Licensed Distribution System Operator and GSP Group Profile Tolerances.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The identifier for the chosen GSP Group.
GSP Group Name	30 Max. (including spaces)	A/N	M	The name of the Grid Supply Point Group.
Region Id	2	A	M	Either 'EW' for England & Wales, or 'S' for

Additional Validation

Within a single GSP Group, more than one reference can exist to a given GSP Group Distributor and SMR Agent ID.

Within a single GSP Group, if a GSP Group Distributor entry exists for a Distributor then its SMR Agent Appointment entry must also exist and vice-versa.

3.10 Entity 20 – GSP Group Profile Class Default EAC

GSP Group Id	GSP Group Name	Profile Class Id	GSP Group Profile Class Default EAC	Effective From Settlement Date	Effective To Settlement Date

Brief Description

Failures in a Supplier's registration and ~~Agent~~ appointment processes can cause there to be no ~~Estimated Annual Consumption~~ available ~~for use in~~ the ~~S~~ettlement process. In order to minimise the impact on the ~~s~~ettlement process a default EAC is used. This default EAC is based on an average of the values for that Supplier's other similar customers in the GSP Group. This data is manually distributed to Market Participants, ~~in word format, on a monthly basis~~ by email.

Guidance on Change Process

This data may need to be created in a number of different circumstances including:

- When a new SSC is created, in which case there may also be associated changes to many other entities, (see the ~~Data~~-Entity Diagram in [Section 4.2.4](#) and guidance on [Entity 32](#)).
- When an existing SSC is introduced into a new GSP Group or Profile Class, in which case there would be associated changes to Average Fraction of Yearly Consumption Set, Average Fraction of Yearly Consumption ~~and~~, GSP Group ~~Daily~~ Profile Class Average EAC ~~and possibly MTC-related entities~~.
- Introduction of new GSP Groups or Profile Classes.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The unique identifier for the relevant GSP Group.
GSP Group Name	30 m Max. (including spaces)	A/N	M	The name of the GSP Group.
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
GSP Group Profile Class Default EAC	12.1	N	M	The default EAC value.
Effective From Settlement Date	10 1	D	M	The first Settlement Date on which the Default EAC becomes active.
Effective To Settlement Date	10 1	D	O	The last Settlement Date on which the EAC is active.

3.11 Entity 27 - Clock Interval

Time Pattern Regime ID	Week Day ID	Start Day	Start Month	End Day	End Month	Start Time	End Time

Brief Description

A time period for a particular day of the week, within a calendar period, when the Time Pattern Regime is active.

Guidance on Change Process

This data may need to be created when a new SSC is created with an associated -Time Pattern Regime (only where the Teleswitch/Clock Indicator equals 'C'), in which case there may also be associated changes to many other entities; (see the ~~Data~~-Entity Diagram in Section 4.2.4 and guidance on Entity 32).

This data could also change for Time Pattern Regimes associated with Standard Settlement Configurations that have a Standard Settlement Configuration Type of 'E' on direction of the Panel or delegated Panel committee to change the 'deemed' switching times for 'Export' Metering Systems associated with small scale third party generation plant.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Time Pattern Regime Id	5	N	M	The 5 digit Id for the relevant Time Pattern Regime (with leading zeros where necessary).
Week Day ID	1	N	M	The identifier for the day of the week between 1 and 7 (Mon – Sun).
Start Day	2	N	M	The identifier for the relevant day <u>of the month</u> , i.e. between 1 and 31.
Start Month	2	N	M	The identifier for the relevant month, i.e. between 1 and 12 (<u>Jan – Dec</u>).
End Day	2	N	M	The identifier for the relevant day <u>of the month</u> , i.e. between 1 and 31.
End Month	2	N	M	The identifier for the relevant month, i.e. between 1 and 12 (<u>Jan – Dec</u>).
Start Time	6	N	M	The Clock Interval start time in the format hhmmss (e.g. 073000).
End Time	6	N	M	The Clock Interval end time in the

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
				format hhmmss (e.g. 083000).

Additional Validation
Clock Time Pattern Regime is a sub set of Time Pattern Regime where the Teleswitch/Clock Indicator equals 'C'.
<p>Start Time and End Time will need to be validated to ensure that they are valid times:</p> <p>Start Time > = 0 and <u> </u> < 240000</p> <p>End Time > 0 and < = 240000</p> <p>Start Time < End Time</p>

Links to Other Entities
The relevant Time Pattern Regime (Entity 38) must exist.

3.12 Entity 29 - Measurement Requirement

Standard Settlement Configuration Id	Time Pattern Regime ID

Brief Description

This details the e-set of Time Pattern Regimes associated to ~~for~~ a Standard Settlement Configuration.

Guidance on Change Process

This data needs to be created when a new SSC is created, in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in Section 4.2.4 and guidance on [Entity 32](#)).

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Standard Settlement Configuration Id	4	N	M	The unique identifier for the SSC. It must consist of four digits (with leading zeros where necessary).
Time Pattern Regime Id	5	N	M	The Id for the relevant Time Pattern Regime.

Additional Validation

Links to Other Entities

A new Measurement Requirement can only be created if the following parent entities exist:

- Standard Settlement Configuration ([Entity 32](#))
- Time Pattern Regime ([Entity 38](#)).

3.13 Entity 32 - Standard Settlement Configuration

Standard Settlement Configuration Id	Effective From Settlement Date {SSC}	Effective To Settlement Date {SSC}	Standard Settlement Configuration Description	Standard Settlement Configuration Type	Teleswitch User Id	Teleswitch Group Id

Brief Description

The unique market wide reference for a Standard Settlement Configuration (logical Non-Half Hourly metering configuration supported by the ~~s~~S Settlement process).

Guidance on Change Process

This data needs to be created when a new SSC is required, in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in [Section 4.2](#)).4.

The creation of new SSCs is subject to approval by the BSC Panel or delegated BSC Panel Committee. ~~Approved MDD changes for new SSCs should be made in accordance with the criteria described in 4.4.~~

New SSCs may also be created at the direction of the BSC Panel or delegated BSC Panel Committee for 'Export' Metering Systems associated with small scale third party generating plant.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Standard Settlement Configuration Id	4	N	M	The unique identifier for the SSC. It must consist of four numeric digits (with leading zeros where necessary).
Effective From Settlement Date {SSC}	10 1	D	M	The first Settlement Date on which the Standard Settlement Configuration is active.
Effective To Settlement Date {SSC}	10 1	D	O	The last Settlement Date on which the Standard Settlement Configuration is active.
Standard Settlement Configuration Description	50 Max. (including spaces) max	A/N	M	The narrative representation of the Standard Settlement Configuration.
Standard Settlement Configuration Type	1	A	M	Either Import 'I' or Export 'E'.
Teleswitch User Id	2	N	O	Identifier for the Teleswitch User.
Teleswitch Group Id	4	N	O	Identifier for the Teleswitch Group.

Additional Validation

A Change Request for a new Standard Settlement Configuration that is assigned to a Teleswitch Time Pattern in Measurement Requirements can only be created if the Teleswitch Group parent entity exists.

The Teleswitch User Id and Teleswitch Group Id can only be updated if they are null.

When a Change Requests ~~is raised to end-date a~~ are made for Standard Settlement Configuration ~~the originator must also end-date all associated child combinations with an~~ with Effective To Settlement Date SSC the Participant should check that all Valid MTC SSC Combinations that belong ~~to the closed SSC record have an~~ Effective To Settlement Date ~~VMTCSC~~ no later than the Effective To Settlement Date of the SSC.

Links to Other Entities

If the Market Participant is linking the Standard Settlement Configuration to a Teleswitch Time Pattern Regime, there must already be a valid Teleswitch Group Id (Entity 37).

3.14 Entity 33 - Teleswitch Time Pattern Regime

Time Pattern Regime ID	Teleswitch User Id	Teleswitch Group Id	Teleswitch Switch Id

Brief Description

The details for a Time Pattern Regime that specifically relate to a Radio Teleswitch controlled pattern of switching.

Guidance on Change Process

This data needs to be created when a new SSC is introduced that has associated Time Pattern Regimes where the Tele-Switch/Clock Indicator set to 'S' in which case there may also be associated changes to many other entities, (see the ~~Data~~ Entity Diagram in [Section 4.2.4](#)).

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Time Pattern Regime Id	5	N	M	The 5 digit Id for the relevant Time Pattern Regime (with leading zeros where necessary).
Teleswitch User Id	2	N	M	Identifier for the Teleswitch User.
Teleswitch Group Id	4	N	M	Identifier for the Teleswitch Group.
Teleswitch Switch Id	1	A	M	1 Character identifier (A, B, C or D).

Links to Other Entities

Combination of Teleswitch User Id and Teleswitch Group Id must already exist in Teleswitch Group ([Entity 37](#)).

3.15 Entity 34 - Teleswitch Register Rules

Time Pattern Regime ID	Teleswitch Register Rule Id

Brief Description

This function allows the user to maintain the list of Teleswitch Register Rules.

Guidance on Change Process

This data needs to be created when a new SSC is introduced that has associated Time Pattern Regimes where the Tele-Switch/Clock Indicator set to 'S' in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in [Section 4.2.4](#)).

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Time Pattern Regime Id	5	N	M	The 5 digit Id for the relevant Time Pattern Regime (with leading zeros where necessary).
Teleswitch Register Rule Id	2	N	M	A number which distinguishes between the different rules associated with a Teleswitch Time Pattern Regime. The rules identify the switching relationships between teleswitch contacts and Settlement registers.

Links to Other Entities

A new occurrence of Teleswitch Register Rules can only be created if the Teleswitch Time Pattern Regime ([Entity33](#)) already exists.

3.16 Entity 35 - Teleswitch Contact Rule

Time Pattern Regime Id	Teleswitch Register Rule Id	Teleswitch Contact Code	Teleswitch Contact Rule

Brief Description

This function allows the user to maintain Teleswitch Contact Rules.

Guidance on Change Process

This data needs to be created when a new SSC is introduced that has associated Time Pattern Regimes where the Tele-Switch/Clock Indicator set to 'S' in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in [Section 4.2.4](#)).

Field Details					
Fieldname	No of Chars	Format	M/O	Description/Comments	
Time Pattern Regime Id	5	N	M	The 5 digit Id for the relevant Time Pattern Regime (with leading zeros where necessary).	
Teleswitch Register Rule Id	1	N	M	Distinguishes between the different rules associated with a Teleswitch Time Pattern Regime. The rules identify the switching relationships between teleswitch contacts and Settlement registers.	
Teleswitch Contact Code	1	A	M	A one character identifier (A, B, C or D) that identifies the logical switching of the Teleswitch Register Rule	
				A	Logical Switch 1
				B	Logical Switch 2
				C	Logical Switch 3
				D	Logical Switch 4
Teleswitch Contact Rule	1	N	M	Indicates whether the rule, identified by a Teleswitch Register Rule Id is satisfied depending on the state of a particular teleswitch contact, '0' meaning the Teleswitch Register Rule Id is satisfied if the contact is off; '1' meaning the Teleswitch Register Rule Id is satisfied if the contact is on.	

Additional Validation

During update, only the Teleswitch Contact Rule can be updated.

Links to Other Entities

A new occurrence of Teleswitch Contact Rules can only be created if the relevant Teleswitch Register Rules ([Entity 34](#)) exists.

3.17 Entity 36 – Teleswitch Contact

Teleswitch Contact Code

Brief Description

This function allows the user to maintain the list of Teleswitch Contact Codes. As there are no non-key attributes, no updates are permitted.

Guidance on Change Process

There are four codes A, B, C and D which cannot be changed or new codes created.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Teleswitch Contact Code	1	A	M	1 character code for the Teleswitch Contact.

3.18 Entity 37 - Teleswitch Group

Teleswitch User Id	Teleswitch Group Id

Brief Description

This function allows the user to maintain the list of Teleswitch Groups. As there are no non-key attributes, no updates are permitted.

Guidance on Change Process

The Supplier is required to start using a new Teleswitch Group in accordance with the Radio Teleswitch Agreement.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Teleswitch User Id	2	N	M	A maximum 2 character identifier for the Teleswitch User.
Teleswitch Group Id	4	N	M	Up to 4 character identifier for the Teleswitch Group.

3.19 Entity 38 - Time Pattern Regime

Time Pattern Regime ID	Teleswitch/Clock Indicator	GMT Indicator

Brief Description

The unique ~~m~~Market wide reference for a ~~Time Pattern Regime being used to calculate money owed for energy used by each customer. A~~ pattern of switching behaviour through time that one or more ~~S~~ettlement registers uses.

Guidance on Change Process

This data needs to be created when a new SSC is created, in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in [Section 4.2.4](#)).

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Time Pattern Regime Id	5	N	M	The 5 digit Id for the relevant Time Pattern Regime (with leading zeros where necessary).
Teleswitch/Clock Indicator	1	A	M	Set to 'S' (Teleswitch) or 'C' (Clock – Time Pattern)
GMT Indicator	1	A	M	Set to 'Y' (Yes) or 'N' (No).

Additional Validation

When Teleswitch/Clock Indicator is set to 'C', then the Time Pattern Regime will have a single child Clock Time Pattern Regime but it cannot also have an occurrence of Teleswitch Time Pattern Regime. Conversely, when Teleswitch/Clock Indicator is set to 'S', then the Time Pattern Regime must have a single child Teleswitch Time Pattern Regime but it cannot also have an occurrence Clock Time Pattern Regime.

If a new Time Pattern Regime is created, then at least one ~~of~~ Teleswitch Time Pattern Regime or Clock Time Pattern Regime must will be created at the same time.

Links to Other Entities

If Teleswitch/Clock Indicator is 'S', Teleswitch Time Pattern Regime ([Entity 33](#)), must also be completed for the same Time Pattern Regime Id.

3.20 Entity 39 - Valid Measurement Requirement Profile Class

Profile Class ID	Standard Settlement Configuration Id	Time Pattern Regime Id	Effective From Settlement Date {VSCPC}	Switched Load Indicator

Brief Description

Measurement Requirement Profile Class links a Measurement Requirement to a valid Standard Settlement Configuration and Profile Class set.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
Standard Settlement Configuration Id	4	N	M	In the range 0000-9999.The code for the relevant Standard Settlement Configuration.
Time Pattern Regime Id	5	N	M	In the range 00000-99999. The code for the relevant TPR.
Effective from Settlement Date {VSCPC}	10 1	D	M	The first Settlement Date on which the Valid Settlement Configuration Profile Class is active.
Switched Load Indicator	1	A	M	Indicates if the load is supplied by a dedicated circuit which is open or closed by time-switch or Teleswitch receiver (T) True, or a non – switched, normal circuit (F) False.

Additional Validation

A Valid Measurement Requirement Profile Class must be created for each Measurement Requirement of the Standard Settlement Configuration.

If the Profile Class has a Switched Load Profile Class Indicator set to 'F', then it cannot be linked to any Measurement Requirement with a Switched Load Indicator of 'T'.

If the Profile Class has a Switched Load Profile Class Indicator set to 'T', it must be associated with at least one Measurement Requirement that has a Switched Load Indicator of 'T'.

Links to other entities

A new Valid Measurement Requirement Profile Class can only be created if a Valid Settlement Configuration Profile Class ([Entity 40](#)) already exists.

A Measurement Requirement ([Entity 29](#)) must already exist for the SSC/TPR combination.

3.21 Entity 40 - Valid Settlement Configuration Profile Class

Profile Class ID	Standard Settlement Configuration Id	Effective From Settlement Date {VSCPC}	Effective To Settlement Date {VSCPC}

Brief Description

The record linking a valid Standard Settlement Configuration to a Profile Class.

Guidance on Change Process

This data needs to be created when a new SSC is created or an existing SSC is introduced for use in a new Profile Class in which case there may also be associated changes to many other entities; (see the ~~Data~~ Entity Diagram in Section 4.2).4.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
Standard Settlement Configuration Id	4	N	M	In the range 0000-9999. The code for the relevant Standard Settlement Configuration.
Effective From Settlement Date {VSCPC}	10±	D	M	The first Settlement Date on which the Valid Settlement Configuration Profile Class is active.
Effective To Settlement Date {VSCPC}	10±	D	O	The last Settlement Date on which the Valid Settlement Configuration Profile Class is active.

Additional Validation

Links to Other Entities

A new Valid Settlement Configuration Profile Class can only be created if ~~the following entities already exist:~~
the Standard Settlement Configuration (Entity 32)
and Profile Class (Entity 31) exist.

3.22 Entity 45 - Market Participant Role

Market Participant Id	
Market Participant Role Code	
Effective From Date {MPR}	
Effective To Date {MPR}	
Address Line 1	
Address Line 2	
Address Line 3	
Address Line 4	
Address Line 5	
Address Line 6	
Address Line 7	
Address Line 8	
Address Line 9	
Post Code	
Distributor Short Code	

Brief Description

Defines the Roles within the electricity market that a Participant will perform. Each Market Participant must have at least one Role Code. There must be a separate record for each Role that the Participant will perform.

Guidance on Change Process

Approved MDD changes for new Suppliers, new LDSOs, existing LDSOs and new Party Agents should be made in accordance with the criteria [detailed in BSCP509 Section 4.2.](#)~~described in section 7.5.~~

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Market Participant Id	4	_A	M	The unique identifier for the Market Participant.
Market Participant Role Code	1	A/N	M	Defines the role of the Market Participant, this must already be defined in Entity 21 .

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Effective From Date {MPR}	10 1	D	M	The calendar date from which the Market Participant will perform this Role. <u>This date must match the Effective From Date {BMUIGG} and the Supplier Base BM Unit in CRA</u>
Effective To Date {MPR}	10 1	D	O	The calendar date on which the Market Participant will cease to perform this Role.
Address Line 1	40 m Max. (with spaces)	A/N	M	<u>Address of the Market Participant for this Role. This must reflect the name of the 'Market Participant'.</u>
Address Lines 2 – 9	40 m Max. (with spaces)	A/N	O	<u>These Optional fields are for completing</u> the address of the Market Participant for this Role.
Post Code	10	A/N	M	The relevant post code.
Distributor Short Code	2	N	O	A code taken from the first two characters of the MPAN for the LDSO. This field is mandatory for Role e Code 'R' (LDSO), but should be left blank for all other Role Codes.

Additional Validation

- If the Role code is 'X' (Supplier), the related Market Participant record (Entity 1) must include the Trading Party Id.
- If a Participant has a Role code of 'R' (LDSO), it must also have a Role code 'P' (SMRA) with the same MPID, and vice versa.

Links to Other Entities

A new Market Participant Role can only be created if an associated Market Participant record (Entity 1) and Role Code record (Entity 21) already exists.

3.23 Entity 52 - Meter Timeswitch Class

Meter Timeswitch Class Id	MTC Meter Type ID	Meter Type Effective From Settlement Date	MTC Payment Type Id	Payment Type Effective From Settlement Date	Effective From Settlement Date {MTC}	Effective To Settlement Date {MTC}	MTC Common Code Indicator

MTC Related Metering System Indicator	MTC Description	MTC Communication Indicator	MTC Type Indicator

Brief Description

A three-digit code representing the type of ~~m~~Metering ~~s~~System serving a customer's premises.

Guidance on Change Process

When new MTCs are requested, both Meter Timeswitch Class and MTC for Distributor tables must be submitted. The first table sets up the MTC, while the second specifies which Distributor the MTC will be valid for. If the change is to extend an existing MTC (i.e. already present in Meter Timeswitch Class) to a further Distributor, only the MTC for Distributor table ([Entity 53](#)) is required.

When Change Requests are made for Meter Timeswitch Class with an Effective to Settlement Date, the associated MTC for Distributor ([Entity 53](#)) details should be checked, to ensure the Effective To Settlement Date MTCPA is no later than the Effective To Settlement Date MTC i.e. MTC for Distributor records cannot remain effective after the Meter Timeswitch Class is discontinued.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	The MTC Id must be within the range 0-999.
MTC Meter Type Id	2	A/N	O	A code from those already defined on Entity 57 .
Meter Type Effective From Settlement Date	10 1	D	O	The s Settlement d ate from which the Meter Type is active.
MTC Payment Type Id	2	A/N	O	A code from those already defined on Entity 58 .
Payment Type Effective From Settlement Date	10 1	D	O	The s Settlement d ate from which the Payment Type is active.
MTC Effective From Settlement Date	10 1	D	M	The s Settlement d ate from which the Meter Timeswitch Class Id is active.
MTC Effective To Settlement Date	10 1	D	O	The last s Settlement d ate on which the MTC Id is active
MTC Common Code Indicator	1	A	M	Either T (Common) or F (Specific)
MTC Related Metering System Indicator	1	A	M	T (True) or F (False)
MTC Description	50 m Max. (with spaces)	A/N	O	The narrative representation of the Meter Timeswitch Class.
MTC Communication Indicator	1	A	O	Either Y (Yes), N (No), X (Not Known).
MTC Type Indicator	1	A	O	Either 'N' (NHH Metering System), 'H' (HH Metering System), or 'X' (Metering System details not available).

Additional Validation

~~When raising a new~~ When raising a new Meter Timeswitch Class, if ~~the MTC is not common (i.e. with a MTC Common Code Indicator of 'F')~~ then the fields: MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator and MTC Type Indicator must be null as they are held in the MTC for Distributor Areas.

When raising a new Meter Timeswitch Class, if ~~the MTC is common (i.e. with a Common Code Indicator of 'T')~~ then the Field Details: MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator and MTC Type Indicator must be supplied.

Effective To Settlement Date MTC, where it is not null, must be greater than or equal to Effective From Settlement Date MTC.

MTC Type Indicator can only be updated if MTC Common Code Indicator ~~equals 'T'~~ and there are no child ~~valid MTC SSC Combinations and no child Valid MTC LLFC Combinations~~.

The Meter Timeswitch Class Id must be within the range 0 – 999.

If the Meter Timeswitch Class Id is in either of the following ranges then the MTC Common Code Indicator must be 'T':

500 – 509

800 – 999

If the Meter Timeswitch Class Id is in either of the following ranges then the MTC Common Code Indicator must be 'F':

0 – 399

510 – 799

If the Meter Timeswitch Class Id is in the following range then the MTC Related Metering System Indicator must be 'T':

500 – 799

If the Meter Timeswitch Class Id is in either of the following ranges then the MTC Related Metering System Indicator must be 'F':

0 – 399

800 – 899

The range 400 – 499 is reserved. In this range the MTC Common Code Indicator and MTC Related Metering System Indicator can be either 'T' or 'F'.

MTC Common Code Indicator can only be updated if the Meter Timeswitch Class Id is in the range 400 – 499 (the reserved range) and there are no child MTC for Distributor records.

MTC Related Metering System Indicator can only be updated if the Meter Timeswitch Class Id is in the range 400 – 499.

Links to Other Entities

There must be a Market Participant Role ([Entity 45](#)) with Role Code 'R' assigned to the Market Participant.

If MTC Meter Type Id is entered, then the value must exist in MTC Meter Types ([Entity 57](#)).

If MTC Payment Type Id is entered, then the value must exist in MTC Payment Type ([Entity 58](#)).

Examples of MDD Entity 52

For MTC Ids with a MTC Common Code ~~=of 'F'~~, the MTC details are specific for each Distributor and defined under the MTC for Distributor table. The Meter Timeswitch table submitted should look like the example given below:

Meter Timeswitch Class Id	MTC Meter Type Id	Meter Type Effective From Settlement Date	MTC Payment Type Id	Payment Type Effective From Settlement Date	Effective From Settlement Date {MTC}	Effective To Settlement Date {MTC}	MTC Common Code Indicator
1					01/04/1006		F

MTC Related Metering System Indicator	MTC Description	MTC Communication Indicator	MTC Type Indicator
F			

For MTC Ids with MTC Common Code ~~=of 'T'~~, the MTC details are common and the same for each GSP Group. The Meter Timeswitch table submitted should look like the example given below:

Meter Timeswitch Class Id	MTC Meter Type Id	Meter Type Effective From Settlement Date	MTC Payment Type Id	Payment Type Effective From Settlement Date	Effective From Settlement Date {MTC}	Effective To Settlement Date {MTC}	MTC Common Code Indicator
864	TN	01/04/1006	CR	01/04/1006	10/11/2000		T
MTC Related Metering System Indicator	MTC Description	MTC Communication Indicator	MTC Type Indicator				
F	Economy	N	N				

3.24 Entity 53 - Meter Timeswitch Class for Distributor

Meter Timeswitch Class Id	MTC Effective From Settlement Date	MTC Effective To Settlement Date	MTC Common Code Indicator	Market Participant Role Code	Market Participant Role Effective From Settlement Date	MTC Meter Type Id	Meter Type Effective From Settlement Date	MTC Payment Type Id

Payment Type Effective From Settlement Date	Distributor Id	MTC Description	MTC Communication Indicator	MTC Type Indicator	MTC for Distributor Effective From Date	MTC for Distributor Effective To Date

Brief Description

Indicates that a particular Meter Timeswitch Class is supported by a Distributor.

Guidance on Change Process

Existing MTCs can be extended to cover further GSP Groups. If a valid entry exists for the MTC in Meter Timeswitch Class, the MTC can be extended to a further GSP Group by adding an entry to MTC for Distributor.

When a Change Request is made to discontinue a ~~an~~ MTC for Distributor, by giving a ~~an~~ MTC for Distributor Effective To Settlement Date, the following should be checked:

- All ~~Valid-MTC-SSC child Cc~~ combinations that belong to the discontinued MTC for Distributor have an Effective To Settlement Date earlier or equal to that for the MTC for Distributor record. All ~~Valid-MTC-LLFC child Cc~~ combinations that belong to the discontinued MTC for Distributor have an Effective To Settlement Date earlier or equal to that for the MTC for Distributor record. ~~All Valid MTC-LLFC-SSC Combinations that belong to the discontinued MTC for Distributor have an Effective To Settlement Date earlier or equal to that for the MTC for Distributor record.~~
- When a Change Request is made to discontinue a Market Participant Role with Role Code 'R', the Participant should check all MTC for Distributor combinations that belong to the closed MPR record. In each case the Effective To Settlement Date of the MTC for Distributor should be no later than Effective To Settlement Date of the ~~m~~Market Participant role.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	The MTC Id must be within the range 0-999.
MTC Effective From Settlement Date	10 ±	D	M	The S Settlement d DDate from which the Meter Timeswitch Class Id is active.
MTC Effective To Settlement Date	10 ±	D	O	The last s Settlement d DDate on which the MTC Id is active.
MTC Common Code Indicator	1	A	M	Indicator set to T (Common) or F (Specific).
Market Participant Role Code	1	A/N	M	Distributor role code 'R'.
Market Participant Role Effective From Settlement Date	10 ±	D	M	The s Settlement d DDate from which the Market Participant Role is active.
MTC Meter Type Id	2	A/N	O	Code from those already defined on Entity 57 .
Meter Type Effective From Settlement Date	10 ±	D	O	The s Settlement d DDate from which the Meter Type is active.
MTC Payment Type Id	2	A/N	O	Code from those already defined on Entity 58 .
Payment Type Effective From Settlement Date	10 ±	D	O	The s Settlement d DDate from which the Payment Type is active.
Distributor Id	4	A	M	The Market Participant id for the Distributor.
MTC Description	50 m Max. (with spaces)	A/N	O	
MTC Communication Indicator	1	A	O	Either Y (Yes), N (No), or X (Not Known).
MTC Type Indicator	1	A	O	Either 'N' (NHH Metering System), 'H' (HH Metering System) or 'X' (Metering System details not available).
MTC for Distributor Effective From Settlement Date	10 ±	D	M	The S Settlement d DDate from which the MTC for Distributor is active.
MTC for Distributor Effective To Settlement Date	10 ±	D	O	The last s Settlement d DDate on which the MTC for Distributor is active.

Additional Validation

If the MTC Common Code Indicator equals 'T' then the ~~following~~ fields: ~~MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator and MTC Type Indicator~~ must be null as they are held in Meter Timeswitch Class table instead. ~~MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator, MTC Type Indicator.~~

If MTC Common Code Indicator equals 'F' then the fields: MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator and MTC Type Indicator must be supplied.

MTC Type Indicator can only be updated if the Common Code Indicator =equals 'F' and there are no associated ~~Valid MTC-SSC Combinations~~ or Valid MTC-LLFC Combinations.

Additional Validation

The Effective From/To Settlement Dates MTC for Distributor must fall within the Effective From/To Settlement Dates MTC for the parent Meter Timeswitch Class.

The Effective From/To Settlement Dates MTC for Distributor must fall within the Effective From/To Settlement Dates MPR for the linked Market Participant Role.

Effective To Settlement Date MTC for Distributor, if entered, must be greater than or equal to Effective From Settlement Date MTC for Distributor.

It is not permissible to have more than one MTC for Distributor, with the same Meter Timeswitch Class Id and Distributor Id, effective in MDD for the same Distributor ~~"open" at the same time~~.

For Distributor specific MTCs, the MTC Common Code must equal 'F'.
For Common MTCs the MTC Common Code must equal 'T'.

Links to Other Entities

There must be a Market Participant Role ([Entity 45](#)) with Role Code 'R' assigned to the Market Participant.

A record for Meter Timeswitch Class Id must exist in Meter Timeswitch Class ([Entity 52](#)).

If MTC Meter Type Id is entered, then the value must exist in MTC Meter Types ([Entity 57](#)).

If MTC Payment Type Id is entered, then the value must exist in MTC Payment Type ([Entity 58](#)).

Examples of MDD Entity 53

The details in the 5 columns MTC Meter Type Id, MTC Payment Id, MTC Description, MTC Communication Indicator and MTC Type Indicator should be given in the MTC for Distributor table Distributor table if the common code indicator equals is set _ = 'F', since they will be typically different for each GSP Group:

Field Details				
Fieldname	No-of Chars	Format	M/O	Description/Comments
Meter-Timeswitch-Class Id	3	N	M	The MTC Id must be within the range 0-999.
MTC Effective-From Settlement-Date	10111	D	M	The settlement date from which the Meter-Timeswitch-Class-Id is active.
MTC Effective-To Settlement-Date	10111	D	Ø	The last settlement date on which the MTC Id is active.
MTC Common-Code Indicator	1	A	M	Indicator set to T (Common) or F (Specific).
Market-Participant-Role Code	1	A/N	M	Distributor role code 'R'.
Market-Participant-Role Effective-From Settlement-Date	10111	D	M	The settlement date from which the Market-Participant-Role is active.
MTC Meter-Type-Id	2	A/N	Ø	Code from those already defined on-Entity 57.
Meter-Type-Effective-From Settlement-Date	10111	D	Ø	The settlement date from which the Meter-Type is active.
MTC Payment-Type-Id	2	A/N	Ø	Code from those already defined on-Entity 58.
Payment-Type-Effective-From Settlement-Date	10111	D	Ø	The settlement date from which the Payment-Type is active.
Distributor-Id	4	A	M	The Market-Participant id for the Distributor.
MTC-Description	50-Mmax- (with spaces)max-	A/N	Ø	
MTC-Communication Indicator	1	A	Ø	Either Y (Yes), N (No), or X (Not Known).
MTC-Type-Indicator	1	A	Ø	Either 'N' (NHH Metering System), 'H' (HH Metering System) or 'X' (Metering System details not available).
MTC for Distributor Effective-From Settlement-Date	10111	D	M	The settlement date from which the MTC for Distributor is active.
MTC for Distributor Effective-To Settlement-Date	10111	D	Ø	The last settlement date on which the MTC for Distributor is active.

Additional Validation

If the MTC Common Code Indicator = 'T' then the following fields must be null as they are held in Meter Timeswitch Class table instead: MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator, MTC Type Indicator.

If MTC Common Code Indicator = 'F' then the fields MTC Meter Type Id, MTC Payment Type Id, MTC Description, MTC Communication Indicator and MTC Type Indicator must be supplied.

MTC Type Indicator can only be updated if the Common Code Indicator = 'F' and there are no associated Valid MTC SSC Combinations or Valid MTC LLFC Combinations.

Additional Validation

The Effective From/To Settlement Dates MTC for Distributor must fall within the Effective From/To Settlement Dates MTC for the parent Meter Timeswitch Class.

The Effective From/To Settlement Dates MTC for Distributor must fall within the Effective From/To Settlement Dates MPR for the linked Market Participant Role.

Effective To Settlement Date MTC for Distributor, if entered, must be greater than or equal to Effective From Settlement Date MTC for Distributor.

It is not permissible to have more than one MTC for Distributor, with the same Meter Timeswitch Class Id and Distributor Id, "open" at the same time.

For Distributor specific MTCs, MTC Common Code = F.
For Common MTCs, MTC Common Code = T.

Links to Other Entities

There must be a Market Participant Role (Entity 45) with Role Code 'R' assigned to the Market Participant.

A record for Meter Timeswitch Class Id must exist in Meter Timeswitch Class (Entity 52).

If MTC Meter Type Id is entered, then the value must exist in MTC Meter Types (Entity 57).

If MTC Payment Type Id is entered, then the value must exist in MTC Payment Type (Entity 58).

Examples of MDD Entity 53

The details in the 5 columns MTC Meter Type Id, MTC Payment Id, MTC Description, MTC Communication Indicator and MTC Type Indicator should be given in the MTC for Distributor table if the common code indicator is set = 'F', since they will be typically different for each GSP Group:

In this example, since all of the values in the 5 columns are Specific, they are detailed in the MTC for Distributor table below.

Meter Timeswitch Class Id	MTC Effective From Settlement Date	MTC Effective To Settlement Date	MTC Common Code Indicator	Market Participant Role Code	Market Participant Role Effective From Settlement Date	MTC Meter Type Id	Meter Type Effective From Settlement Date	MTC Payment Type Id
1	01/04/1996		F	R	01/03/1996	UM		CR

Payment Type Effective From Settlement Date	Distributor Id	MTC Description	MTC Communication Indicator	MTC Type Indicator	MTC for Distributor Effective From Date	MTC for Distributor Effective To Date
	ABCD	Budget Warmth	N	N	01/05/1996	

In the example below, all of the values in the 5 columns are Common, the MTC Common Code Indicator is set to 'T' in the Meter Timeswitch Class entity and the columns are detailed in the Meter Timeswitch Class ([Entity 52](#)), so the MTC for Distributor table should look like below:

Meter Timeswitch Class Id	MTC Effective From Settlement Date	MTC Effective To Settlement Date	MTC Common Code Indicator	Market Participant Role Code	Market Participant Role Effective From Settlement Date	MTC Meter Type Id	Meter Type Effective From Settlement Date	MTC Payment Type Id
1	01/04/1996		T	R	01/03/1996			

Payment Type Effective From Settlement Date	Distributor Id	MTC Description	MTC Communication Indicator	MTC Type Indicator	MTC for Distributor Effective From Date	MTC for Distributor Effective To Date
	ABCD				01/05/1996	

3.25 Entity 54 - Valid MTC SSC Combinations

Meter Timeswitch Class Id	Effective From Settlement Date {MTC}	Market Participant Id	Effective From Settlement Date of MTC for Distributor	Effective To Settlement Date of MTC for Distributor	Standard Settlement Configuration Id	SSC Effective From Settlement Date	SSC Effective To Settlement Date	Valid MTC/SSC Effective From Settlement Date	Valid MTC/SSC Effective To Settlement Date

Brief Description

A valid combination of Meter Timeswitch Class and Standard Settlement Configuration

Guidance on Change Process

See the ~~Data~~-Entity Diagram for valid MTC-SSC combinations in Section 4.20.

When Change Requests are made for Valid MTC SSC Combination with an Effective To Settlement Date VMTCLSC the Participant should check that all related ~~Vvalid MTC-LLFC-SSC-C~~ combinations (Entity 56 and Entity 63) have an Effective To Settlement Date ~~VMTCLSC~~ no later than Effective To Settlement Date VMTCLSC.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	The MTC Id must be within the range 0-999.
MTC Effective From Settlement Date	10 1	D	M	The Settlement Date from which the Meter Timeswitch Class Id is active.
Market Participant Id	4	A	M	The Distributor Id.
Effective From Settlement Date of MTC for Distributor	10 1	D	M	The S ettlement d ate from which MTC for Distributor is active.
Effective To Settlement Date of MTC for Distributor	10 1	D	O	The last s ettlement d ate on which MTC for Distributor is active.
SSC Id	4	N	M	The relevant SSC Id to be linked to the MTC Id.
SSC Effective From Settlement Date	10 1	D	M	The first Settlement Date on which the Standard Settlement Configuration is active.
SSC Effective To Settlement Date	10 1	D	O	The last Settlement Date on which the Standard Settlement Configuration is active.
Valid MTC/SSC Combination Effective From Settlement Date	10 1	D	M	The first Settlement Date on which the <u>Valid</u> MTC _ SSC e Combination is active.
Valid MTC/SSC Combination Effective To Settlement Date	10 1	D	O	The last Settlement Date on which the <u>Valid</u> MTC _ SSC e Combination is active, must be the same as the MDD Go Live Date or later.

Additional Validation
A Valid MTC SSC <u>C</u> ombination can only be created if a parent record exists in MTC for Distributor with a Type Indicator of= 'N', or Type Indicator is null and the parent Meter Timeswitch Class Type Indicator <u>equals=</u> 'N'.
A Valid Standard Settlement Configuration Id must exist in Standard Settlement Configurations.
The Effective From/To Settlement Dates VMTCS C must fall within the Effective From/To Settlement Dates MTC for Distributor.
The Effective From/To Settlement Dates VMTCS C must fall within the Effective From/To Settlement Dates for the linked Standard Settlement Configuration.
Effective To Settlement Date VMTCS C, where it is not null, must be greater than or equal to Effective From Settlement Date VMTCS C.
It is not permissible to have more than one Valid MTC SSC Combination, with the same Meter Timeswitch Class Id, Distributor Id and Standard Settlement Configuration Id, <u>effective in MDD "open"</u> at the same time.

Additional Validation
All SSCs associated with a given MTC for Distributor must have the same number of Measurement Requirements.
Effective From Settlement Date VMTCS must be the same as the MDD Go Live date or later.
Effective From Settlement Date MTC, Effective From Settlement Date MTC for Distributor must be the same as in MDD, or if they are all being set up simultaneously, must be the same as the MDD Go Live date or later.

Links to Other Entities
SSC must have an entry in the Standard Settlement Configuration table (Entity 32).

3.26 Entity 55 - Valid MTC LLFC Combinations

Meter Timeswitch Class Id	MTC Effective From Settlement Date	Market Participant Id	Effective From Settlement Date of MTC for Distributor	Effective To Settlement Date of MTC for Distributor	Line Loss Factor Class Id	Market Participant Role Code	Market Participant Role Effective From Settlement Date

LLFC Effective From Settlement Date	LLFC Effective To Settlement Date	Valid MTC/LLFC Combination Effective From Settlement Date	Valid MTC/LLFC Combination Effective To Settlement Date

Brief Description

A valid combination of Meter Timeswitch Class and Line Loss Factor Class.

Guidance on Change Process

See the ~~Data~~ Entity Diagram ~~for MTC Combinations~~ in Section ~~04.2~~.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	The MTC Id must be within the range 0-999.
MTC Effective From Settlement Date	10 ±	D	M	The S Settlement e DDate from which the Meter Timeswitch Class Id is active.
Market Participant Id	4	A	M	The Distributor Id.
Effective From Settlement Date of MTC for Distributor	10 ±	D	M	The s Settlement e DDate from which MTC for Distributor is active
Effective To Settlement Date of MTC for Distributor	10 ±	D	O	The last s Settlement e DDate on which MTC for Distributor is active
Line Loss Factor Class Id	3	N	M	The relevant LLFC Id to be linked to the MTC Id. It must be within the numerical range 0 – 999
Market Participant Role Code	1	A/N	M	The Distributor Role Code 'R'.
Market Participant Role Effective From Settlement Date	10 ±	D	M	The Settlement e DDate the Market Participant became active in this role.
LLFC Effective From Settlement Date	10 ±	D	M	The first Settlement Date on which the Line Loss Factor Class is active.
LLFC Effective To Settlement Date	10 ±	D	O	The last Settlement Date on which the Line Loss Factor Class is active.
Valid MTC/LLFC Combination Effective From Settlement Date	10 ±	D	M	The first Settlement Date on which the <u>Valid</u> -MTC/ e LLFC e CCombination is active.
Valid MTC/LLFC Combination Effective To Settlement Date	10 ±	D	O	The last Settlement Date on which the <u>Valid</u> MTC/ e LLFC e CCombination is active. If entered, must be the same as the MDD Go Live Date or later.

Additional Validation

A Valid MTC LLFC ~~e~~Combination can only be created if a parent record exists in MTC for Distributor with a MTC Type Indicator ~~=of~~ 'H', or Type Indicator is null and the parent Meter Timeswitch Class Type Indicator ~~=of~~ 'H'.

LLFC can have any MS Specific Type Indicator.

The Effective From/To Settlement Dates VMTCLC must fall within the Effective From/To Settlement Dates for Distributor of the parent MTC for Distributor.

The Effective From/To Settlement Dates VMTCLC must fall within the Effective From/To Settlement Dates for the parent Line Loss Factor Class.

Effective To Settlement Date VMTCLC, where it is not null, must be greater than or equal to Effective From Settlement Date VMTCLC.

It is not permissible to have more than one Valid MTC LLFC Combination~~s~~, with the same Meter Timeswitch Class Id, Distributor Id and Line Loss Factor Class Id, ~~effective in MDD "open"~~ at the same time.

Effective From Settlement Date VMTCLC must be the same as the MDD Go Live date or later.

Effective From Settlement Date MTC, Effective From Settlement Date for Distributor must correspond with the dates held in MDD, or if they are all being set up simultaneously, must be the same as the MDD Go Live date or later.

Links to Other Entities

There must already be a Market Participant record ([Entity 1](#)) and ~~Market Participant Role (Entity 45)~~.

There must be a valid Line Loss Factor Class ([Entity 17](#)) for the participant.

There must be a valid Meter Timeswitch Class ([Entity 52](#)) and Meter Timeswitch Class for Distributor ([Entity 53](#)).

3.27 Entity 56 - Valid MTC SSC LLFC Combinations

Meter Timeswitch Class Id	Distributor Id	Standard Settlement Configuration Id	Valid MTC/SSC Effective From Settlement Date	Valid MTC/SSC Effective To Settlement Date	Line Loss Factor Id	Market Participant Role	Market Participant Role Effective From Settlement Date

LLFC Effective From Settlement Date	LLFC Effective To Settlement Date	Valid MTC/LLFC/SSC Combination Effective From Settlement Date	Valid MTC/LLFC/SSC Combination Effective To Settlement Date

Brief Description

Allows the user to link specific Line Loss Factor Classes to Valid MTC/SSC Combinations.

Guidance on Change Process

See the ~~Data~~ Entity Diagram ~~for MTC Combinations~~ in Section ~~04.2~~.

When Change Requests are made for Valid MTC LLFC SSC Combinations with an Effective To Settlement Date VMTCLSC the Participant should check that all related Valid MTC LLFC SSC PC Combinations ([Entity 63](#)) have an Effective To Settlement Date VMTCLSCPC no later than Effective To Settlement Date VMTCLSC

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	In the range 0-999.
Distributor Id	4	A	M	The Market Participant Id
Standard Settlement Configuration Id	4	N	M	In the range 0000-9999. The SSC Id linked to the MTC Id.
Valid MTC/SSC Effective From Settlement Date	10 ±	D	M	The first Settlement Date on which the MTC/SSC combination is active.
Valid MTC/SSC effective To Settlement Date	10 ±	D	O	The last Settlement Date on which the MTC/SSC combination is active.
Line Loss Factor Class Id	3	N	M	In the range 0-999. The relevant LLFC Id to be linked to the <u>Valid</u> MTC/SSC € Combination.
Market Participant Role	1	A/N	M	The Distributor Role Code - 'R'.
Market Participant Role Effective From Settlement Date	10 ±	D	M	The Settlement d Date on which the Market Participant became active in the Role.
LLFC Effective From Settlement Date	10 ±	D	M	The first Settlement Date on which the Line Loss Factor Class is active.
LLFC Effective To Settlement Date	10 ±	D	O	The last Settlement Date on which the Line Loss Factor Class is active.
Valid MTC/LLFC/SSC Combination Effective From Settlement Date	10 ±	D	M	The first Settlement Date on which the <u>Valid</u> MTC/SSC/LLFC € Combination is active.
Valid MTC/LLFC/SSC Combination Effective To Settlement Date	10 ±	D	O	The last Settlement Date on which the <u>Valid</u> MTC/SSC/LLFC € Combination is active.

Additional Validation	
The MTC must have a MTC Type Indicator of ' <u>N</u> ', indicating a NHH Metering System.	
Only an LLFC with a MS Specific LLFC Indicator of 'A' can be linked to an SSC with Type of 'I'.	
Only an LLFC with a MS Specific LLFC Indicator of 'C' can be linked to an SSC with Type of 'E'.	
The V valid MTC/LLFC/SSC Combination Effective From/To Settlement Dates must fall within the v Valid MTC/SSC Effective From/To Settlement Dates for the <u>Valid</u> MTC SSC Combination.	

Additional Validation

The ~~Valid~~ MTC/LLFC/SSC Combination Effective From/To Settlement Dates must fall within the LLFC Effective From/To Settlement Dates for the linked LLFC.

When end-dating a ~~Valid~~ MTC SSC LLFC Combination, the Valid MTC/LLFC/SSC Combination Effective To Settlement Date must be greater than or equal to the Valid MTC/LLFC/SSC Combination Effective From Settlement Date.

When end-dating a ~~Valid~~ MTC SSC LLFC Combination, the Valid MTC/LLFC/SSC Combination Effective To Settlement Date must be greater than or equal to the MDD Go-live date.

It is not permissible to have more than one Valid MTC LLFC SSC Combination, with the same Meter Timeswitch Class Id, Distributor Id, Standard Settlement Configuration Id and Line Loss Factor Class Id, effective in MDD ~~"open"~~ at the same time.

Links to other entities

There must already be a Market Participant ([Entity 1](#)) and Market Participant Role (Entity 45).

There must already be a Line Loss Factor Class ([Entity 17](#)) for the LLFC and Distributor.

A Valid MTC SSC Combination ([Entity 54](#)) must exist with the matching MTC and SSC codes.

There must be a valid Meter Timeswitch Class ([Entity 52](#)) and Meter Timeswitch Class for Distributor ([Entity 53](#)).

3.28 Entity 57 - MTC Meter Types

MTC Meter Type Id	MTC Meter Type Description	Effective From Settlement Date {MMT}	Effective To Settlement Date {MMT}

Brief Description

Indicates the capability of the meter, with the exception of COP 1-5 meters currently being used for register load billing (i.e. Profiled), which will be treated as TP (Timeswitch Programmable).

Guidance on Change Process

Introduction of a new meter type with a capability not covered by the existing data set would require additional data to be created for this entity.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
MTC Meter Type Id	2	A/N	M	The id for the MTC Meter type.
MTC Meter Type Description	50 Max. (with spaces)	A/N	M	Description of the MTC Meter Type Id.
Effective From Settlement Date {MMT}	10 1	D	M	The Settlement Date from which the Meter Type Id is active.
Effective To Settlement Date {MMT}	10 1	D	O	The last Settlement Date on which the Meter Type Id is active.

Additional Validation

Effective To Settlement Date MMT, where it is entered, must be greater than or equal to Effective From Settlement Date MMT.

It is not permissible to have more than one MTC Meter Type, with the same MTC Meter Type Id, ~~effectively~~registered in MDD "open" at the same time.

3.29 Entity 58 - MTC Payment Type

MTC Payment Type Id	MTC Payment Type Description	Effective From Settlement Date {MPT}	Effective To Settlement Date {MPT}

Brief Description

This function allows the user to maintain details of MTC Payment Type.

Guidance on Change Process

The introduction of metering with a payment methodology not covered by the existing set would require additional data to be created for this entity.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
MTC Payment Type Id	2	A/N	M	The i Id for the MTC payment type.
MTC Payment Type Description	50 Max. (with spaces)	A/N	M	Description of the MTC Payment Type Id.
Effective From Settlement Date {MPT}	10 1	D	M	The Settlement Date from which the Payment Type Id is active.
Effective To Settlement Date {MPT}	10 1	D	O	The last Settlement Date on which the Payment Type Id is active.

Additional Validation

If entered, the Effective To Settlement Date MPT must be greater than or equal to Effective From Settlement Date MPT.

It is not permissible to have more than one MTC Payment Type, with the same MTC Payment Type Id, ~~effective in MDD~~"open" at the same time.

3.30 Entity 60 - GSP Group Profile Tolerances

Profile Class Id	GSP Group Id	Lower limit Tolerance	Upper Limit Tolerance

Brief Description

Profile Class Tolerances are used during the EAC/AA calculation and are GSP Group specific.

Guidance on Change Process

The tolerances for this entity may be changed from time to time as directed by the BSC Panel or delegated BSC Panel Committee.

Introduction of new Profile Classes or GSP groups would also require additional data to be created for this entity and would also be directed by the BSC Panel or delegated BSC Panel Committee.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
Profile Class Id	1	N	M	The profile classification identified as a number from 1-8.
GSP Group Id	2	_A	M	The identifier for the relevant GSP Group.
Lower Limit Tolerance	7	N	M	Must be a negative integer value in kWh.
Upper Limit Tolerance	7	N	M	Must be a positive integer value in kWh.

3.31 Entity 61 - Base BM Unit for Supplier in GSP Group

GSP Group	Market Participant (Supplier) ID	Market Participant Role Code	Effective From Date {MPR}	BM Unit ID	Effective From Settlement Date {BMUIGG}	Effective To Settlement Date {BMUIGG}

Brief Description

A BM Unit is a representation of an association of generation equipment or of consumption, as the case may be, registered under the BSC for the purposes of participation in the Balancing Mechanism. Every single metering system in Great Britain, whether for generation or consumption, is a component of a BM Unit (and only one BM Unit).

There are two different types of BM Unit, Base BM Units and Additional BM Units. For the purpose of clarification the distinction between the two types of BM Unit is as follows:

- A set of Base BM Units will be assigned to the first Supplier ID registered by a Party. All Suppliers must have one Initial Base BM Unit in each GSP Group.
- Suppliers are permitted to register Additional BM Units and can choose to use any of the Supplier IDs that they have registered, provided that the Supplier ID chosen is **effective in MDD 'Live'**. There is no requirement for a Supplier to register an Additional BM Unit in each GSP Group and there is no limit to the number of Additional BM Units that a Supplier can register in each GSP Group.

Guidance on Change Process

For any SVA BM Unit to be successfully registered, it needs to be recorded in two separate systems that operate independently of one another, the Market Domain Data (MDD) system and the Central Registration Agency (CRA) system. Both systems need to be synchronised with the same data at the same time and in order to ensure that this occurs, a number of process controls are in place. The registration and de-registration processes for each type of BM Unit are documented in [BSCP509 and BSCP15](#), for Base BM Units and Additional Base BM Units [BSCP65](#) and for Additional BM Units [BSCP509](#) and [BSCP15](#). The following paragraph gives a brief description of how the validation process works.

All types of SVA BM Unit are subject to the same process controls during registration or de-registration. The Party is required to register or de-register the BM Units in the CRA and MDD systems in parallel, with the same Effective From / To Date in both systems. The process takes approximately 30 Working Days and is initiated by the Party declaring their intention to register or de-register a set of SVA BM Units to both the CRA and ~~ELEXON BSCCo~~. ~~ELEXON BSCCo~~ will ensure the following criteria are met:

- that the Party is aware of their obligation to register in both the MDD and CRA systems simultaneously
- that the Party is aware of the time-scales involved
- that the Party is aware of the requirement to synchronise the Effective To / From Dates in both the MDD and CRA systems
- that the Effective To / From Dates are required to be on or after the next 'Go-Live' date of

Guidance on Change Process

MDD.

- Once the BSCP forms have been submitted, the BM Unit data is provisionally entered onto the CRA systems with the Effective Date of the change set either on or after the forthcoming MDD 'Go-Live' date. The CRA then generates a P0181 file which contains the relevant Standing Data required in both the CRA and MDD systems. The P0181 file is sent to the SVA Agent who forwards it on to ELEXON to check and confirm that all the MDD changes that are expected, and have been captured in the P0181 file. Finally when all process checks have been completed, ELEXON will confirm with the SVA Agent that all changes about to be made in the forthcoming MDD Publish are consistent with all changes made in the CRA systems. ELEXON will then confirm with the SVA Agent which P0181 file to load. The MDD and CRA systems will capture the change and the BM Unit data will be registered / de-registered with the same Effective From / To Date in both systems.

Field Details

Fieldname	No of Chars	Format	M/O	Description/Comments
GSP Group Id	2	_A	M	The identifier for the relevant GSP Group.
Market Participant (Supplier) Id	4	A	M	The identifier for the Market Participant.
Market Participant Role Code	1	A/N	M	The assigned role code for the Market Participant (Supplier 'X').
Effective From Date {MPR}	10 111	D	M	The date on which the Market Participant was accredited as a Supplier.
BM Unit Id	11	A/N	M	See Additional Validation for format of the BM Unit Id.
Effective From Date {BMUIGG}	10 111	D	M	The first day on which the BM Unit was active within the GSP Group
Effective To Date {BMUIGG}	10 111	D	O	The last day on which the BM Unit was active within the GSP Group

Additional Validation

The naming convention for Base and Additional BM Units is as follows:

Base BM Unit, 2__ASUPP000	Additional BM Unit, 2__ASUPP001
(2_) = SVA BM Unit	(2_) = SVA BM Unit
(_A) = GSP Group _A	(_A) = GSP Group _A
(SUPP) = 4 Character Supplier ID	(SUPP) = 4 Character Supplier ID
(000) = Base BM Unit	(001)* = Additional BM Unit

*The number increments as more additional BM Units are registered.

You cannot have more than one occurrence of BM Unit for Supplier in GSP Group for the same BM Unit Id effective on the same Settlement Date.

Each combination of GSP Group and Market Participant with a Supplier Role Code of 'X' must have one instance of BM Unit for Supplier in GSP Group with the Default BM Unit Flag set to 'T' TRUE from the Effective From Settlement Date, this must be greater than or equal to either the NETA Start Date (27/03/2001) where Region Id equals 'EW' (GSP Group's in England/Wales) or BETTA Start Date (01/04/2005) where Region Id equals 'S' (GSP Group's in Scotland).

Links to Other Entities

There must be a Market Participant (Entity 1) and a Market Participant Role role-code (Entity 45) with Role Code 'X' assigned to the Market Participant.

3.32 Entity 62 - Details of Proposed Change to Unmetered Supplies Operational Information

Proposed Change to Unmetered Supplies Operational Information	
Section	
Page number	
Reason for Change.	
Details of Change (including redlined version of change, if appropriate).	
Additional Information	

Brief Description

Proposed changes to the Unmetered Supplies Operational Information are incorporated in the MDD Impact Assessment Circular. However, they are not added to any DTC data flow, but remain in the existing document format and are held on the [BSC Wwebsite](#). MDD Circulars refer participants to the location of the Operational Data document on the website.

This information is not included in the MDD database, but can be found on the BSC [Wwebsite](#).

3.33 Entity 63 - Valid MTC LLFC SSC PC Combinations

Meter Timeswitch Class Id	Distributor Id	Standard Settlement Configuration Id	Valid MTC/SSC Effective From Settlement Date	Line Loss Factor Class Id	Market Participant Role Code	Market Participant Role Effective From Settlement Date	LLFC Effective From Settlement Date

Valid MTC/LLFC/SSC Combination Effective From Settlement Date	Profile Class Id	Valid MTC/LLFC/SSC/PC Combination Effective From Settlement Date	Valid MTC/LLFC/SSC/PC Combination Effective To Settlement Date	Preserved Tariff Indicator

Brief Description

Allows the user to link specific Profile Classes to Valid MTC ~~/LLFC/~~ SSC Combinations.

Guidance on Change Process

See the ~~Data~~ Entity Diagram ~~for MTC Combinations~~ in Section ~~04.2~~.

Field Details				
Fieldname	No of Chars	Format	M/O	Description/Comments
Meter Timeswitch Class Id	3	N	M	In the range 0-999.
Distributor Id	4	A	M	The Market Participant Id
Standard Settlement Configuration Id	4	N	M	In the range 0000-9999. The SSC Id linked to the MTC Id.
Valid MTC/SSC Effective From Settlement Date	10111	D	M	The first Settlement Date on which the MTC/SSC combination is active.
Line Loss Factor Class Id	3	N	M	In the range 0-999. The relevant LLFC Id linked to the MTC/SSC combination.
Market Participant Role Code	1	A/N	M	The Distributor Role Code – 'R'
Market Participant Role Effective From Settlement Date	10111	D	M	The Settlement D ate on which the Market Participant became active in the Role.
LLFC Effective From Settlement Date	10111	D	M	The first Settlement Date on which the Line Loss Factor Class is active.
Valid MTC/LLFC/SSC Combination Effective From Settlement Date	10111	D	M	The first Settlement Date on which the <u>Valid</u> MTC _ SSC _ LLFC e Combination is active.
Profile Class Id				
Valid MTC/LLFC/SSC/PC Combination Effective From Settlement Date	10111	D	M	The first Settlement Date on which the <u>Valid</u> MTC _ SSC _ LLFC _ PC e Combination is to be active.
Valid MTC/LLFC/SSC/PC Combination Effective To Settlement Date	10111	D	O	The last Settlement Date on which the <u>Valid</u> MTC _ SSC _ LLFC _ PC e Combination is to be active.
Preserved Tariff Indicator	1	A	M	The Preserved Tariff Indicator, "T" or "F"

Additional Validation

The MTC must have a MTC Type Indicator of 'N', indicating a NHH Metering System.

Only an LLFC with a MS Specific LLFC Indicator of 'A' can be linked to an SSC with Type of 'I'.

Only an LLFC with a MS Specific LLFC Indicator of 'C' can be linked to an SSC with Type of 'E'.

The ~~V~~Valid MTC/LLFC/SSC/PC Combination Effective From/To Settlement Dates must fall within the ~~V~~Valid MTC/LLFC/SSC Combination -Effective From/To Settlement Dates for the Valid MTC LLFC SSC Combination.

The ~~V~~Valid MTC/LLFC/SSC/PC Combination Effective From/To Settlement Dates must fall within the Valid Settlement Configuration Profile Class Effective From/To Settlement Dates for the linked Profile Class and SSC.

When end-dating an Valid MTC SSC LLFC PC Combination, the Valid MTC/LLFC/SSC/PC Combination Effective To Settlement Date must be greater than or equal to the Valid MTC/LLFC/SSC/PC Combination Effective From Settlement Date.

When end-dating a Valid MTC SSC LLFC PC Combination, the Valid MTC/LLFC/SSC/PC Combination Effective To Settlement Date must be greater than or equal to the MDD Go-live date.

It is not permissible to have more than one Valid MTC LLFC SSC PC Combination, with the same Meter Timeswitch Class Id, Distributor Id, Standard Settlement Configuration Id, Line Loss Factor Class Id and Profile Class Id, effective in MDD "open" at the same time.

Preserved Tariff Indicator must be either T (True) or F (False)

Links to other entities

There must already be a Market Participant ([Entity 1](#)) and Market Participant Role ([Entity 45](#)).

There must already be a Line Loss Factor Class ([Entity 17](#)) for the LLFC and Distributor.

A Valid MTC SSC Combination ([Entity 54](#)) must exist with the matching MTC and SSC codes.

There must be a ~~V~~Valid Meter Timeswitch Class ([Entity 52](#)) and Meter Timeswitch Class for Distributor ([Entity 53](#)).

SSC must have an entry in the Standard Settlement Configuration table ([Entity 32](#)).

Profile Class and SSC must have an entry in the Valid Settlement Configuration Profile Class ([Entity 40](#)) table.

A Valid MTC LLFC SSC Combination ([Entity 56](#)) must exist with the matching MTC, SSC and LLFC codes.

<u>SMETS Version</u>	<u>SMETS Version Description</u>

Brief Description

The available versions of the Smart Metering Equipment Technical Specifications (SMETS) established under the Smart Energy Code (SEC).

Guidance on Change Process

Introduction of new versions of the SMETS will be initiated under SEC governance, but once approved will be reflected as an update to this entity, usually progressed by BSCCo.

Field Details

<u>Fieldname</u>	<u>No of Chars</u>	<u>Format</u>	<u>M/O</u>	<u>Description/Comments</u>
<u>SMETS Version</u>	<u>8</u>	<u>A/N</u>	<u>M</u>	<u>Identifier of the particular SMETS Version.</u>
<u>SMETS Version Description</u>	<u>30</u>	<u>A/N</u>	<u>M</u>	<u>Long description of the particular SMETS Version.</u>

3.345 Entities Changed by the BSCCo.

The following entities make up the Base Calendar information and are updated annually by the BSCCo.

Entity No.	Entity Name	Description and comments
14	Clock Time Changes	A change in the Time, e.g. a change from BST to GMT (or vice-versa).
16	Year	A calendar year in format yyyy e.g. 2007
22	Settlement Day	A date on which energy is deemed to be used and must be later settled through Supplier Volume Allocation Settlement and Reconciliation.
23	Settlement Period	A period of 30 minutes beginning on the hour or the half-hour, used in the BSC for Settlement purposes. The Settlement Period Id is unique within the Settlement Date.
26	Yearly Season Details	The start and end dates of the Seasons throughout the year.

3.365 Entities Changed by the Profile Administrator

The following entities are provided by the Profile Administrator and are updated annually.

Entity No.	Entity Name	Description and comments
5	Default Period Profile Class Coefficients	Coefficients used by Half Hourly Data Collectors (HHDC) to estimate demand values for HH half hH hourly meters.
6	GSP Group Average EAC	The estimated average annual consumption for M metering S systems for a GSP Group.
7	Period Regression Equation	A reference to a Regression Equation for a Settlement Period within a Profile, for a Season and Day-type combination.
8	Period Regression Equation Set	A reference to the Regression Equations for a Profile, Season and Day-type combination.
9	Profile Set	Reference for a set of Profile Data.
10	Regression Coefficient	A coefficient or variable which specifies how consumption for a Profile varies and is substituted into a Period Regression Equation Reference for a set of Profile Data.

3.376 Entities Changed by the SVAA

The following entity is provided by the SVAA and is updated annually.

<u>Entity No.</u>	<u>Entity Name</u>	<u>Description and comments</u>
<u>15</u>	<u>Settlement Calendar</u>	<u>Used by all Market Participants to give them notification of their Payment dates and the dates to process and submit Data Aggregator data to the SVA Agent.</u>

3.387 Rarely Changed Entities

The following entities are hardly ever changed as part of the Market Domain Data process.

Entity No.	Entity Name	Description and comments
19	GSP Group Correction Scaling Factor	A factor which can be applied to the GSP Group Correction Factor to define to what degree it will be applied to a particular Consumption Component Class.
21	Market Role	A code representing a Market Role that a Market Participant may take.
24	Smoothing Parameter	A standard positive factor which determines when calculating a new value for an EAC, how much weight is given to an Annualised Advance and how much is given to the previous EAC.
25	Threshold Parameter	The minimum numbers of valid EACs/AAs that must be provided for averaging. These are used as the mechanism for determining an EAC substitute for missing or invalid EACs/AAs.
30	Profile	The reference number for a Profile, unique within Profile Class.
31	Profile Class	A classification of profile which represents an exclusive category of customers whose consumption can be reasonably approximated to a common profile for the purpose of attributing an EAC or AA to individual half hours for S settlement purposes. A Profile Class may be for Switched Load or Non-Switched Load.
41	Consumption Component Class	Identifies the category of Half Hourly and Non Half Hourly consumption.
42	Day of the Week	The reference number for a Day of the Week, used in the representation of Clock intervals.
43	Day Type	A two character code for the type or day e.g. Weekday, Saturday, Boxing Day etc.
44	Energisation Status	A one character code identifying the Energisation Status <u>(either 'E' for Energised or 'D' for De-energised)</u> .
46	Measurement Class	Unique identifier for the measurement classification of a M metering S system which determines how the power values for a m Metering S system are to be aggregated.
47	Measurement Quantity	A two character code that identifies the quantity that may be measured.
49	Regression Coefficient Type	A code identifier for the type of Regression Coefficient.

Entity No.	Entity Name	Description and comments
50	Season	A one character code identifier for the Season.
51	Settlement Type	The types of S ettlement and reconciliation which can be performed for a S ettlement D ay.
59	Half Hourly Default EAC	Default Estimated Annual Consumption (EACs) is are used as a default when estimating consumption for hH alf hH ourly mM etering sS ystems in the absence of sufficient historical data where the Supplier has not provided a metering specific value.

4 **DATA-ENTITY DIAGRAMS**

4.1 Introduction

The purpose of ~~these~~these diagrams is to show the ~~table~~ relationship of the most common data entities raised and held in Market Domain Data.

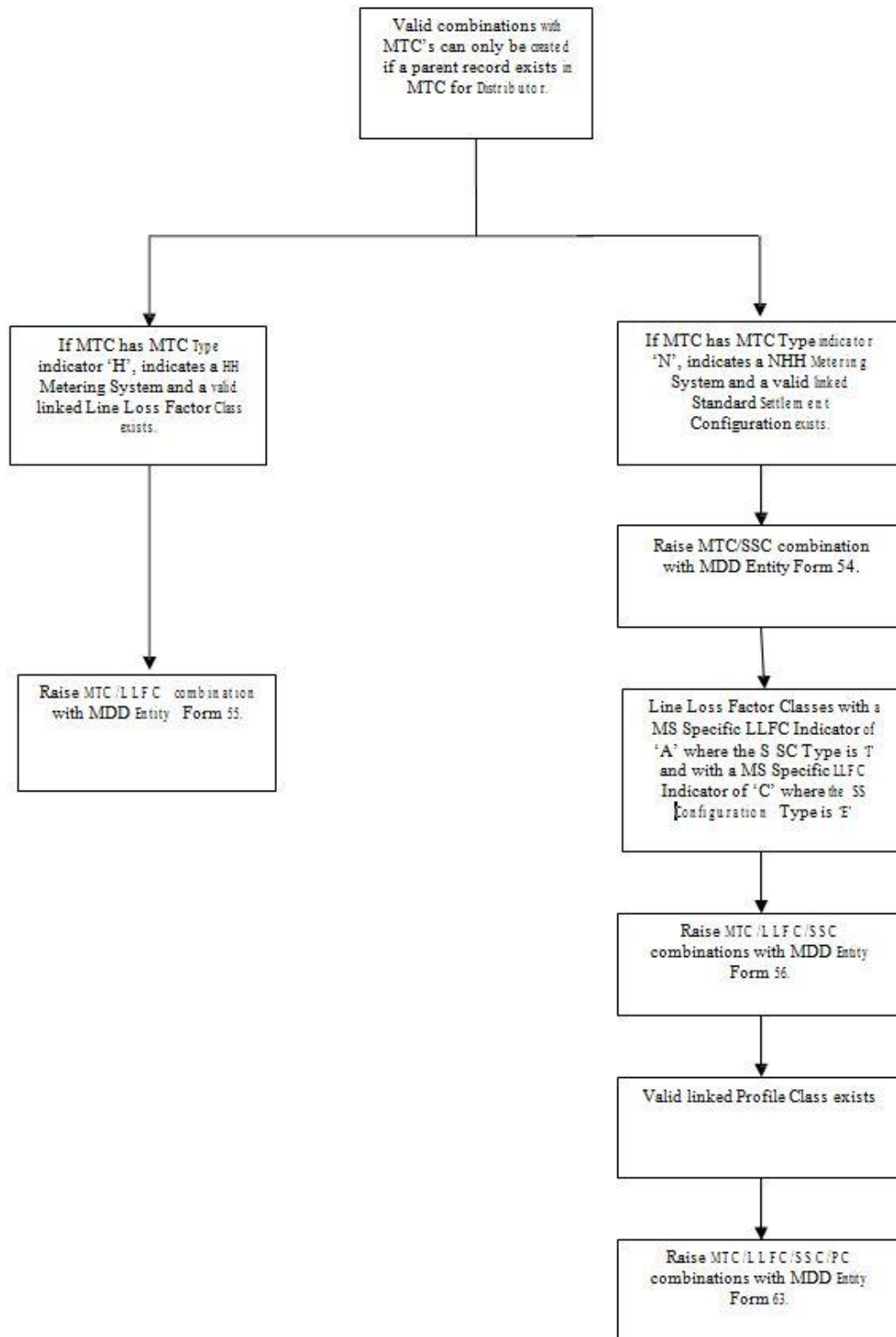
The structure of the diagrams displays how records are positioned in a relationship format and should not be used for format checks or creating new records or profiles. The Participant should use existing information from their MDD records and Section 3 of this document which provides a valid check of the table entities needed to create an overall profile or new record.

~~The following flowcharts are contained in this section:~~

- ~~• 4.2 depicts the relationship between the entities MTC and MTC for Distributor~~
- ~~• 4.3 depicts the relationship between MTC for Distributor, LLFCs and SSCs~~
- ~~• 4.4 shows the load indicators, time patterns and requirements needed to create a new measured configuration for a SSC linked to a MTC. Please note that existing SSCs can have additional profile class and TPRs linked to new AFYCs and GSP Group EACs.~~

4.4.22 MeterMEntity Diagram

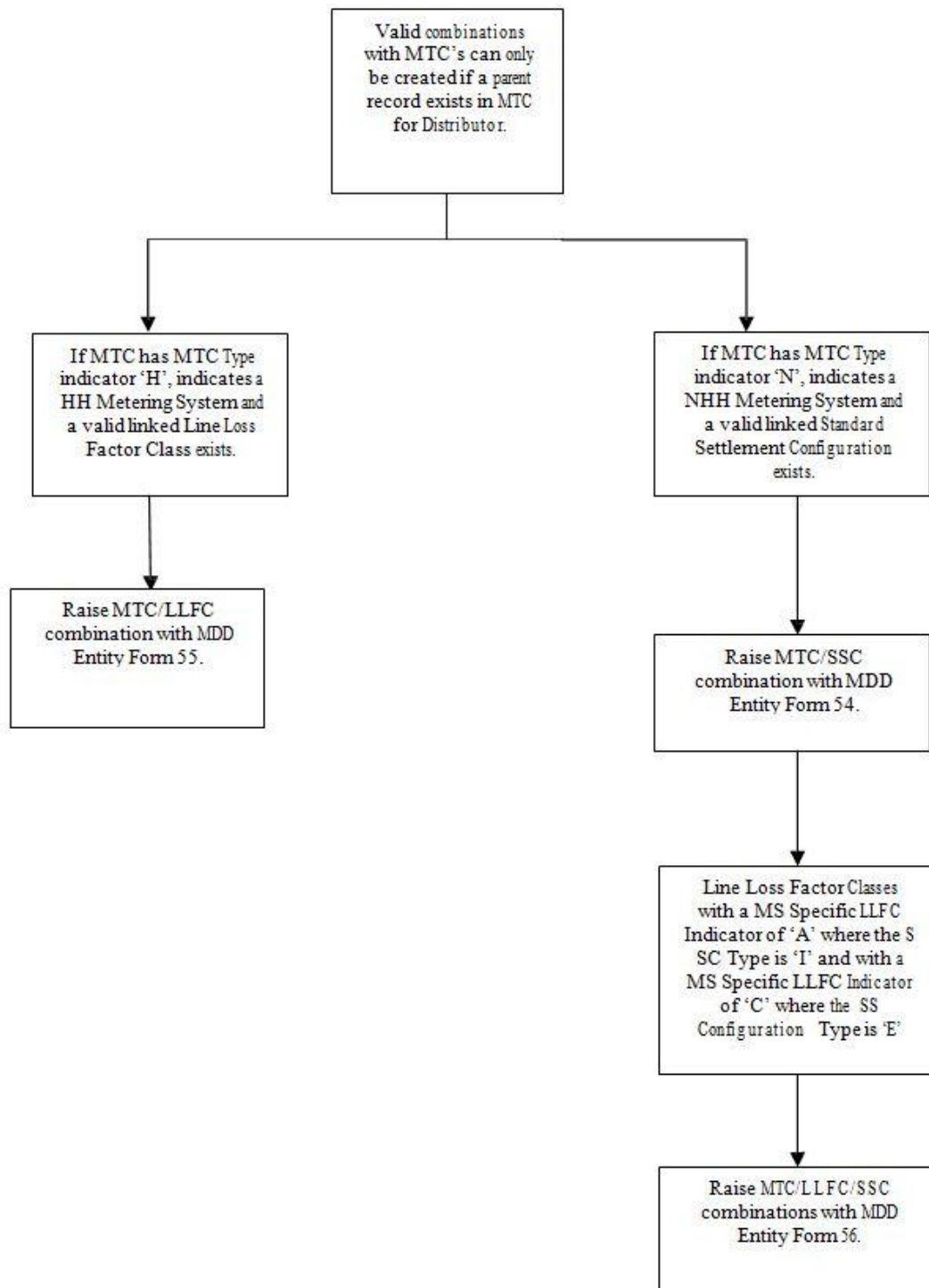
~~eter Timeswitch Classes~~



|

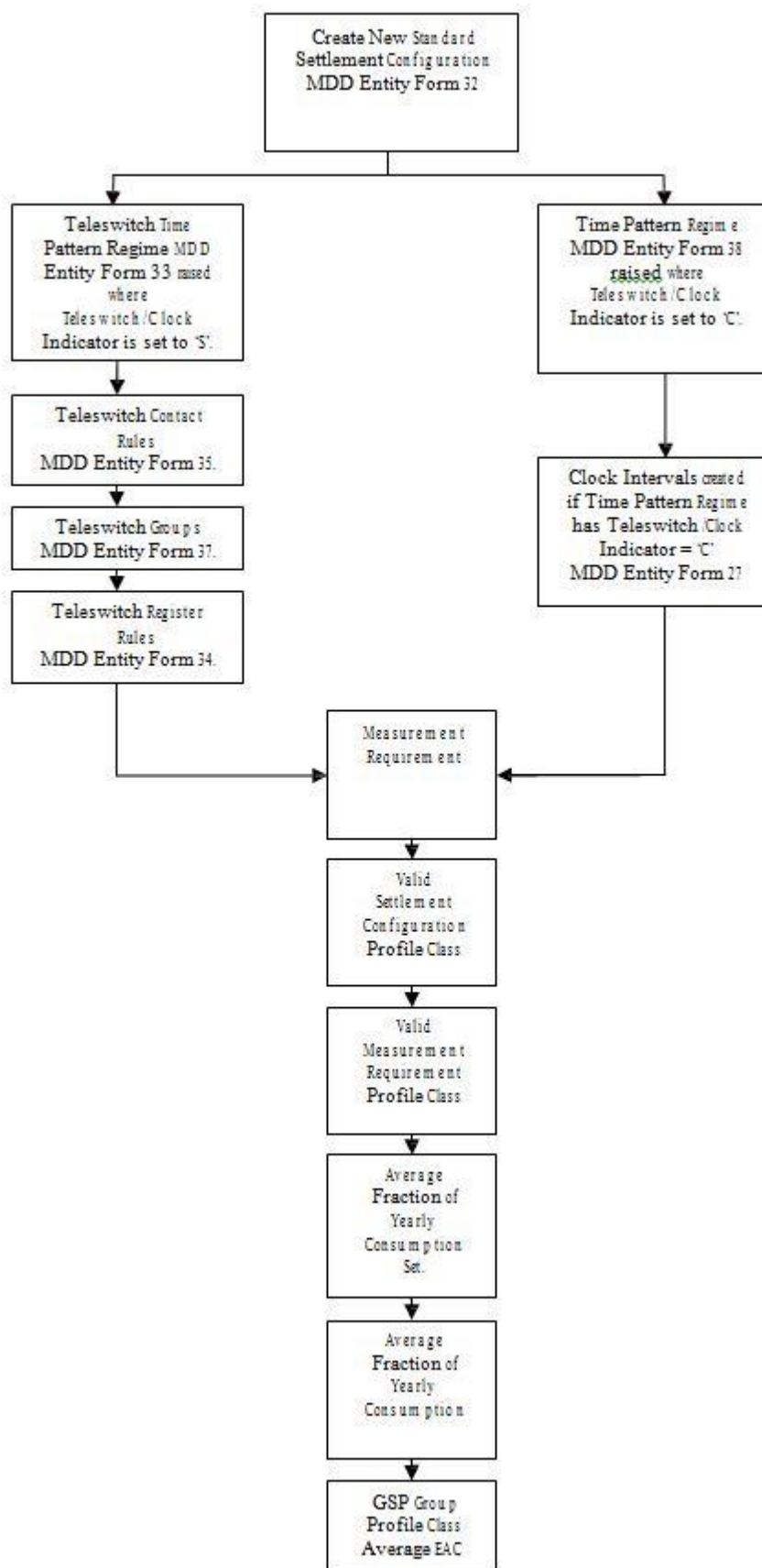
|

4.3 MTC Combinations



|

4.4 — Standard Settlement Configuration



5 — MDD PROCESS

5.1 — Introduction

This section describes the process of publishing a new version of MDD, covering the complete cycle from participants raising Change Requests, through assessment, the entry of changed data, publication, distribution and loading of the new MDD release.

5.2 — MDD Change Request Form (F509/01)

All entity tables to be changed should be submitted with a F509/01 MDD Change Request Form which can be found in BSCP509.

All change requests submitted should state clearly on the F509/01 form each entity provided with the change. The forms should include the entity name and the change required, i.e. update, add, delete etc. Participants must only submit Change Requests on the correct BSCP509 forms.

All Change Requests must be submitted directly to the MDD Coordinator via email to: mdde@elexon.co.uk, or via fax to 020 7380 4329.

Any Change Requests that are assessed and are found to contain validation issues will be returned by ELEXON to the raising Participant for clarification.

5.3 — MDD Authorised Signatories

In order to submit a valid MDD Change Request the Participant submitting the Change Request is required to be a Category Y Authorised Signatory in accordance with BSCP38. Please refer to BSCP38 for details on becoming an MDD Authorised Signatory.

5.4 — The Assessment Process

The draft MDD circular (see section 5.5), together with all attached Change Requests and associated entity forms, is assessed to ensure that the requests are valid, in a reasonable format and can be input into the MDD database. The assessment covers the impact of all data provided in the MDD circulars. Typically, this may include the following checks:-

- instructions on F509/01 form are precise and accurate
- correct tables of data are included with Change Request
- tables and the entries provided conform to the MDD Functional Specification
- end dated parent records have associated child records end dated
- effective From/To Dates are correct.

All issues are recorded and Market Participants will be notified of any that need to be rectified.

5.5 MDD Circulars

ELEXON use MDD Circulars to communicate the details of MDD changes to Market Participants and the MDDM team.

After the assessment of the draft MDD circular as described in 5.4, ELEXON distributes the circular to Market Participants for their Impact Assessment and comments. Following resolution of any issues raised, a Final Circular for the publish of the new MDD version is issued. This includes:

- Formal notification of the new version number to be released
- Summary details of the Change Requests included
- F509/01 change forms and associated entity tables
- The Publish Date of the new version
- The Go-Live date of the new version.

5.6 MDD Publish Schedule and Timescales

MDD is published approximately monthly, however the length of time between Publishes may vary as it is dependent upon the volume and urgency of the Change Requests submitted. All MDD Change Requests require SVG approval, therefore the Publish schedule is derived from SVG meeting dates. The schedule is published from time to time, by ELEXON, via an MDD Circular.

5.7 MDD Data Entry

When the SVA Agent receives the Final Circular for the MDD version, data from the respective Change Requests is either entered manually or input via a file load utility into the MDD database. The data is provided in prescribed entity table format that maps onto the MDD screens.

The majority of data is entered manually into the database tables. Emphasis is placed on accuracy as the data typed in must be exactly as the data received, i.e. words must be in the correct case and spacing is exactly the same as the participant presents it.

There are several updates that are loaded into MDD via external files:

- BM Unit Registration data
- Regression Coefficient and DPPC files
- Yearly Settlement Calendar.

5.8 Validation

There is a separate MDD function which reports against any constraints or validation rulings for the specific MDD version. If validation warnings are found they are reported to ELEXON with recommendations. The issues can then be resolved, or the relevant changes withdrawn, before Publication continues.

5.9 The Publication Process

The Publication Process updates the MDD database with the changes, creating a new version of MDD and generates a series of files for distribution to each Market Participant.

5.10——Distribution

MDD is distributed by the SVA Agent to all Participants registered on the MDD distribution list and is available to all BSC Parties. Non BSC Parties pay a fee directly to ELEXON. Details of the costs to Non BSC Parties can be found on the [ELEXON website](#).

Participants requesting MDD including the Technical Product Deliverables component (e.g. Regression data) will be required to sign a confidentiality agreement with ELEXON before they can receive the flows.

The flows can be distributed via the DTN or via e-mail, depending upon each Participant's requirements. In order to receive MDD data flows, Participants must raise a call with the SVAA Helpdesk, detailing the exact flows required and the method of distribution.

The Publish is distributed in two ways:

DTN

Over 200 files are created for distribution via Data Transfer Network (DTN). To avoid overloading the network, files are 'drip fed' at periodic intervals.

Sending files via DTN is reliable and auditable which makes it the SVA Agent's preferred method of distribution and if an acknowledgement is not received within 24 hours of dispatch, the reason is actively investigated and, if necessary, the file is resent.

Email

Over 100 participants from various parties request MDD files via e-mail. Due to the size of the files they are zipped and put in specific sets.

Distribution via e-mail is undertaken on a "reasonable endeavours" basis and acknowledgements are not monitored.

5.11——Go Live for SVA Agent

There are four flows created in the Publish which are loaded into the ISRA system on the Go—Live date:

D0269002—Market Domain Data Complete Set (Without regression) P0015001—Profile Data

D0278002—Pool Market Domain Data

D0299001—BM Unit Registration.

There are also files that are loaded into ISRA on an annual basis:-

P0014001—Regression Equations Data

D0286001—Settlement Calendar.

The ISRA system is updated with the new version of MDD on the Go—Live date (this is normally 5 working days after the Publish Date).

5.12——Go Live for Market Participants

In order to ensure that the Market Domain Data is consistent across the industry, all Participants are required to load the latest version of the D0269 or D0270 after every Publish, prior to the Go—Live date for that version.

5.13 — MDD Load Utility

ELEXON has developed an MDD Load Utility to read the D0269 Market Domain Data complete set and populate an Access Database which contains tables that emulate the MDD system maintained by the SVA Agent.

The current version of the Load Utility is Version 6.0 and is compatible only with Access XP and Access 2000. Participants can request a copy of the ELEXON MDD Load Utility from ELEXON via the BSC Service Desk. It can also be downloaded from the ELEXON website.

~~6 MDD DATA FLOWS CREATED BY PUBLISH~~

This section briefly describes the files produced by the MDD Publish.

- ~~1. D0269—Market Domain Data Complete Set. There are two versions of D0269 and two variants of each version:~~
 - ~~• D0269002—with regression data~~
 - ~~• D0269002—without regression data~~
 - ~~• D0269004—with regression data—this version includes the additional import/export flag on the SSC record and the new Entity 63 Valid MTC SSC LLFC PC Combinations.~~
 - ~~• D0269004—without regression data—this version includes the additional import/export flag on the SSC record and the new Entity 63 Valid MTC SSC LLFC PC Combinations.~~
- ~~2. The D0270 flow is called Market Domain Data Incremental Set—the flow contains only the data changed since the previous publication of Market Domain Data. There are two versions of D0270 and two variants of each version:~~
 - ~~• D0270002—with regression data~~
 - ~~• D0270002—without regression data~~
 - ~~• D0270004—with regression data—this version includes the additional import/export flag on the SSC record and the new Entity 63 Valid MTC SSC LLFC PC Combinations.~~
 - ~~• D0270004—without regression data—this version includes the additional import/export flag on the SSC record and the new Entity 63 Valid MTC SSC LLFC PC Combinations.~~

Note:

Regression data—regression equations are used in conjunction with daily variables (i.e. temperatures, Teleswitch, sunset data and sunset data squared) to calculate sets of Profile Coefficients to estimate half hourly demand for non—half hourly customers.

- ~~3. D0280—Teleswitch Contact to Register Mapping File.~~
- ~~4. D0299—BM Unit Registration Data File.~~
- ~~5. D0278—Teleswitch Pool Market Domain Interface File. This file contains details of the Market Domain Data required for Teleswitch metering systems. There are two versions of D0278 and two variants of each version:~~
 - ~~• D0278001—with data for England, Wales and Scotland~~
 - ~~• D0278001—with Scottish data only~~
 - ~~• D0278002—with data for England, Wales and Scotland. This version includes the additional import/export flag on the SSC record~~
 - ~~• D0278002—with Scottish data only. This version includes the additional import/export flag on the SSC record.~~
- ~~6. D0267—Pool Settlements Timetable File—this is no longer distributed to Market Participants.~~

~~7. D0227—Standard Settlement Configuration tables.~~

~~8. D0286—Data Aggregation and Settlements Timetable file. A Timetable defining input and output timescales for the processing of a Settlement Date.~~

~~9. P0015—Profile Data File.~~

The following flows are also distributed by email as part of the Publish process:

- ~~• P0186—Half Hourly Default EAC (Entity 59)~~
- ~~• P190—GSP Group Profile Class Tolerances (Entity 60)~~
- ~~• GSP Group Profile Class Default EAC (Entity 20)~~
- ~~• D0269002 and D0270002 (without regression), distributed as MP30.~~
- ~~• D0269004 and D0270004 (without regression), distributed as MP30.~~

7 — GENERAL INFORMATION

7.1 — External Data loaded into MDD

There are three files loaded into MDD on an annual basis. These hold external data which is critical to Market Participants and Agents within the Electricity Industry.

7.1.1 — Regression Coefficients

Regression Coefficient Data is provided on a yearly basis by the Profile Administrator (IMServ) in the flow P0014001 — Regression Equations Data.

Electricity demand among selected customers is collated over a yearly period. Calculations are made from data collected from large research programmes for half hourly demand from customers.

The purpose of the data analysis is to derive sets of Regression Coefficients to estimate half hourly demand for non half hourly customers. The Regression Coefficients will be used to calculate GSP Group Average Consumption for each Profile Class and GSP Group.

The data is sent to ELEXON for validation and thereafter to the SVA Agent where it is loaded into the MDD Database.

7.1.2 — Default Period Profile Coefficients

Provided on an annual basis by the Profile Administrator (IMServ).

The calculated Coefficients are used by Half hourly Data Collectors (HHDC) to estimate demand values for half hourly meters.

The data is sent to ELEXON for validation and thereafter to the SVA Agent where it is loaded into the MDD Database.

7.1.3 — SVA Settlement Calendar

Calculated on a yearly basis from data provided from the Funds Administration Agent (FAA) payment calendar.

The payment calendar is sent to the SVA Agent by ELEXON as an excel spread sheet which contains Settlement Dates, Settlement Codes, Notification Dates and Payment Dates.

The SVA Agent calculates the Data Aggregator (DA) Run dates, SVA Notification Dates and VAR Run dates from the Dates and offsets provided. These dates are then validated and returned to ELEXON for confirmation that they can be used.

The calendar is produced and loaded into MDD then subsequently into ISRA as the D0286 file, it is used by all Market Participants to give them notification of their Payment dates and the dates to process and submit Data Aggregator data to the SVA Agent.

7.2 — Allocation of an SVA Metering System to an Additional BM Unit

If a Supplier has an Additional BM Unit in a GSP Group as well as the compulsory Base BM Unit, the Supplier can specify which BM Unit in the GSP Group to allocate a specific Metering System or set of Metering Systems to. If the Supplier does not specify, then the Metering System(s) will be automatically defaulted to the Base BM Unit for that Supplier ID in that GSP Group. If the Supplier wishes to allocate a specific Metering System(s) to an Additional BM Unit in that GSP Group, the Supplier must specify this. This process works differently depending on whether the Metering System(s) in question is Half Hourly or Non Half Hourly.

7.3 — Non Half Hourly SVA Metering Systems

Non Half Hourly Metering Systems are automatically defaulted to the Supplier's Base BM Unit for the appropriate GSP Group unless otherwise specified by the Supplier. If the Supplier has an Additional BM Unit set up for the GSP Group concerned, they may assign the set of Metering Systems associated with a specified Standard Settlement Configuration and Profile Class combination in the GSP Group to the Additional BM Unit using an F507/02 form from BSCP507. The Supplier is required to record the following information on the form:

- BM Unit ID
- Supplier ID
- GSP Group ID
- Effective From Settlement Date (BM Unit in GSP Group)
- Profile Class ID
- Standard Settlement Configuration ID(s)
- Effective From Settlement Date (NHH BM Unit Allocation)
- Effective To Settlement Date (NHH BM Unit Allocation).

7.4 — Half Hourly Metering Systems

Half Hourly Metering Systems are also automatically defaulted to the Supplier's Base BM Unit for the appropriate GSP Group unless otherwise specified by the Supplier. If the Supplier has an Additional BM Unit set up for the GSP Group concerned, they may assign Metering Systems in the GSP Group to the Additional BM Unit by submitting a D0297 flow to the relevant Half Hourly Data Aggregator. This flow requires the following information:

- BM Unit ID
- Effective From Settlement Date (Metering System BM Unit)
- File Sequence Number
- Instruction Number
- MPAN Core.

The D0297 is used for both initial allocations where the Supplier does not want to use the default Base BM Unit and for updates.

7.5 — MDD Registration Criteria

Approved MDD changes for new Suppliers, new LDSOs, existing LDSOs and new Party Agents should be made in accordance with the criteria described below.

~~7.5.1—New Suppliers/Licensed Distribution System Operators (LDSOs)~~

~~In order for a new Supplier's or new LDSO's Market Participant and Market Participant Role Data to be registered in MDD they must have completed the following steps:~~

~~Acceded (Registered as a BSC Party); and~~

~~Qualified (Proven that they can interface with Central Systems);~~

~~7.5.2—Existing LDSOs registering in a GSP Group~~

~~In order for GSP Group associations (i.e. GSP Group Distributor and SMRA Appointment data) for an LDSO to be registered in MDD they must have completed the following steps:~~

~~Acceded (Registered as a BSC Party);~~

~~Qualified (Proven that they can interface with Central Systems); and~~

~~Have gained PAB approval that their SMRS has completed Qualification (in accordance with BSCP537);~~

~~GSP Group registration is progressed through BSCP25.~~

~~7.5.3—New BSC Party Agents~~

~~In order for a new BSC Party Agent to be registered in MDD they must have:~~

~~Completed Qualification i.e. gained approval from PAB (in accordance with BSCP537) that they have completed the Qualification process.~~

Appendix A: Glossary

Term	Description
Average Fraction of Yearly Consumption	The specification of the proportion of the profile shape that falls within the designated Settlement Periods.
Average Fraction of Yearly Consumption Set	A set of data specifying how average consumption is split across registers for a particular GSP Group, SSC and Profile Class.
BM Unit	A BM Unit is a representation of an association of generation equipment or of consumption registered under the BSC for the purposes of participation in the BM. <u>Balancing Mechanism (BM) Units are used as units of trade within the Balancing Mechanism. Each BM Unit accounts for a collection of plant and/or apparatus, and is considered the smallest grouping that can be independently controlled. As a result, most BM Units contain either a generating unit or a collection of consumption meters.</u>
Calendar Data	Data including details of the dates of the Calendar Seasons, dates of British Summer Time and the timetable for certain operational requirements of the SVA Agent and Data Aggregators.
Clock Interval	The 'on' interval of a clock based Time Pattern Regime. Clock Intervals for a Time Pattern Regime are defined in terms of Start and End Dates, Days of the Week, and Start and End Times.
Clock Time Change	A change in the Date and Time or a change from BST to GMT or vice versa.
Clock Time Pattern Regime	A Time Pattern Regime associated with a clock-switched Standard Settlement Configuration.
Consumption Component Class	Identifies the category of Half Hourly and Non - Half Hourly consumption. For example, metered or unmetered.
Day of the Week	The reference number for a Day of the Week, used in the representation of Clock Intervals.
Day Type	An identifier for the type of s Settlement d Day, used to identify which regression equations and time patterns are valid on a specific s Settlement d Day.
Default Period Profile Class Coefficient	Coefficients used by Half Hourly Data Collectors (HHDC) to estimate demand values for H half H hourly meters.
Energisation Status	Identifies the energisation <u>Energisation</u> status of the M metering s System.
GSP Group	The identifier of a distinct electrical system, consisting of all or part of a distribution system owned and operated by a Distributor that is supplied from one or more Grid Supply Points for which the total supply into the GSP Group can be determined for each half hour. There are currently 14 GSP Groups in England, Scotland and Wales. In Scotland the equivalent term BSP (Bulk Supply Point) is used and this has more or less the same definition to that described for a GSP Group in England and Wales. For simplicity the England and Wales GSP Groups and Scottish BSP Groups are held in the same GSP Group table of MDD.
GSP Group Average EAC	The estimated average annual consumption for m Metering S systems for a GSP Group.

Term	Description
GSP Group Correction Scaling Factor	A factor which can be applied to the GSP Group Correction Factor to calculate how the GSP Group Factor will be applied to a particular consumption component class.
GSP Group Distributor	The Distributor for a GSP Group, from the specified Effective From Settlement Date.
GSP Group Daily Profile Class Average EAC	The estimated average annual consumption for M metering S systems in a Profile Class and Standard Settlement Configuration for a GSP Group.
GSP Group Profile Class Default EAC	The estimated average annual consumption for M metering S systems in a Profile Class for a GSP Group.
SVA Agent Appointment	SVA Agent appointed to a specific GSP Group. In practice this is the same Agent for all GSP Groups.
Line Loss Factor Class	The reference for a Line Loss Factor Class within a Distributor's system which applies to a group of M metering S systems.
Market Participant	The unique market wide reference for a Market Participant.
Market Participant Role	Identifies the role that a Market Participant performs in the market.
Market Role	The Valid Set of market roles, identifying a m Market p Participant's role. For example 'Supplier'.
MDD Version	Identifies the version of the Market Domain Data publication.
Measurement Class	Unique identifier for the measurement classification of a m Metering S system which determines how values for a Metering System are to be aggregated.
Measurement Quantity	Identifies the quantity which may be measured. For example, consumption or generation.
Measurement Requirement	The set of Time Pattern Regimes for a Standard Settlement Configuration.
Meter Timeswitch Class	A three-digit code representing the type of M metering s System serving a customer's premises. Data recorded includes Half Hourly and Non - Half Hourly classes, Effective From and To Settlement Dates, permitted values of Meter Type code, Payment Type code and which Distribution areas support the code.
MTC in Distributor Area	Indicates that a particular Meter Timeswitch Code <u>Code</u> lass is supported in a SMR area.
MTC Meter Type	Indicates the capability of the meter.
MTC Payment Type	Identifies the method of payment associated with a Meter Timeswitch Code <u>Code</u> lass .
Parent record and child record relationship	MDD Datasets that contain related data tables are represented as a parent/child relationship. When creating or updating information in these tables it will also affect the relevant parent/child record containing the same data.

Term	Description
Period Regression Equation	A Regression Equation and associated Regression Coefficients for a Settlement Period within a Profile and GSP Group, for a season and day-type combination. When evaluated using GSP Group and Settlement Date specific parameters, the regression equation produces a Basic Period Profile Coefficient.
Profile	The reference number for a Profile, unique within Profile Class. Each set of profiles for a profile class will include one base load profile and a number of switched load profiles.
Profile Class	A classification of profile which represents an exclusive category of customers whose consumption can be reasonably approximated to a common profile for the purpose of attributing an EAC or AA to individual half hours for s Settlement purposes.
Profiling Data	Researched numerical information used to estimate and profile electricity consumption in half hour periods for m Metering s Systems throughout the year.
Profile Regression Equation Set	The set of regression equations for a profile, for a season and day type combination.
Profile Set	A set of profile data as provided by the Profile Administrator.
Regression Coefficient	A coefficient or variable which specifies how consumption for a Profile varies and is substituted into a Period Regression Equation.
Regression Coefficient Type	The valid types of Regression Coefficient.
Season	The reference number for a season.
Settlement	Calendar or Settlement activities specifying dates that files must be delivered to the SVA Agent for processing.
Settlement Day	The date on which energy is deemed to be used and must be later settled through Supplier Volume Allocation Settlement and Reconciliation.
Settlement Period	The reference for a s Settlement period, unique within Settlement Date. Periods Ids are assigned sequentially to each period in local time day.
Settlement Type	The types of S settlement and reconciliation which can be performed for a S settlement d Day.
Smoothing Parameter	Parameter that controls how quickly Estimated consumption reacts to changes in actual consumption. A standard, positive factor which determines how much weight is given to an AA and how much is given to the previous EAC, when calculating a new value for an EAC.
SMR Agent Appointment	SMR Agent appointed to a specific GSP Group.
Standard Settlement Configuration	The unique market wide reference for a Standard Settlement Configuration (logical Non-Half Hourly metering configuration supported by the S settlement process). The data includes s Settlement register 'on' times, teleswitch rules and average fractions of yearly consumption and estimates of annual consumption.

Term	Description
Teleswitch Time Pattern Regime	A Time Pattern Regime associated with a teleswitched Standard Settlement Configuration. A Teleswitch Time Pattern Regime can only belong to one Teleswitch Group.
Threshold Parameter	The minimum numbers of valid EACs/AAs that must be provided for averaging to be used as the mechanism for determining an EAC substitute for missing or invalid EAC/AAs.
Time Pattern Regime	The unique market wide reference for a Time Pattern Regime being used to calculate money owed for energy used by each customer. A pattern of switching behaviour through time that one or more S ettlement registers uses.
Valid Sets	Valid Sets are tables of information that define the discrete set of values allowable for certain data items and are used to check MDD against mis-specification or inconsistency.
Valid Measurement Requirement Profile Class	Measurement Requirement within a valid Standard Settlement Configuration and Profile Class set.
Valid Settlement Configuration Profile Class	The valid Standard Settlement Configurations for a Profile Class.
Valid MTC SSC Combination	Indicates that a particular combination of Meter Timeswitch CodeCode lass and Standard Settlement Configuration is supported in a Distributor area. Specified for Non - Half Hourly MTCs only
Valid MTC LLFC Combination	Indicates that a particular combination of Meter Timeswitch CodeCode lass and Line Loss Factor Class is supported in a Distributor area. Specified for Half Hourly MTCs only.
Valid MTC LLFC SSC Combination	Indicates that a particular combination of Meter Timeswitch CodeCode lass, Standard Settlement Configuration and Line Loss Factor Class is supported in a Distributor area. Specified for Non - Half Hourly MTCs only.
Valid MTC LLFC SSC PC Combination	Indicates that a particular combination of Meter Timeswitch CodeCode lass, Standard Settlement Configuration, Line Loss Factor Class and Profile Class is supported in a Distributor area. Specified for Non-Half Hourly MTCs only.
Year	A valid S ettlement year.
Yearly Season Details	Data detailing the dates of the seasons throughout the year.

CONTACTS

ELEXON Contacts:

Change Request Inbox: mddc@elexon.co.uk

Change Request Fax Number: 020 7380 4329

MDD Co-ordination: Paul Reeves 020 7380 4365, paul.reeves@elexon.co.uk

Help desk:

BSC Service Desk: bscservicedesk@logica.com, 0870 010 6950

Need more information?

For more information please contact the **BSC Service Desk** at bscservicedesk@logica.com or call **0870 010 6950**.

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