Balancing and Settlement Code

BSC PROCEDURE

CHANGES TO INDUSTRY STANDING DATA

BSCP707 Appendix 1:

ISD Entity Change Request Forms

Version 0.93

Date: DD MM YYYY

BSC Procedure 707 Appendix 1 relating to Industry Standing Data Entity Change Request Forms

1.   Reference is made to the Balancing and Settlement Code for the Electricity Industry in Great Britain and, in particular, to the definition of "BSC Procedure".

2.   This is BSC Procedure 707 Version 0.93 relating to Industry Standing Data Entity Change Request Forms.

3.   This BSC Procedure is effective from DD MM YYYY

4.   This BSC Procedure has been approved by the Panel.

AMENDMENT RECORD

Version	Date	Description of Changes	Changes Included	Mods/ Panel/ Committee Refs
0.1	26/06/2023	First Draft	MHHS Programme	
0.2	07/07/2023	Internal Review	MHHS Programme	
0.3	01/08/2023	Following Elexon Review	MHHS Programme	
0.4	14/09/2023	Following Consultation	MHHS Programme	
0.5	06/11/2023	Version uplifted following CCAG Approval	MHHS Programme	
0.6	06/11/2023	Mop up 1	MHHS Programme	
0.7	04/01/2024	Following Consultation	MHHS Programme	
0.8	29/01/2024	Mop up 2	MHHS Programme	
0.9	21/03/2024	Following Consultation	MHHS Programme	
0.91	24/04/2024	Following Assurance Review	MHHS Programme	
0.92	16/05/2024	Consistency Checks	MHHS Programme	
0.93	24/07/2024	Following Consultation	MHHS Programme	

Table of Contents

ISD Entity ID~~d~~ 1   -   Market Participant Organisation

Company Registration Number	Registered Company Name	ISO Country Code

Formatted Table

Column Name	Data Type/Length	Other information
Company Registration Number	Up to 10 characters	Mandatory
Registered Company Name	Up to 160[IR6] characters	Mandatory (checked against Companies House)
ISO Country Code	2 characters	Mandatory (default is GB)

Company Registration Number	Registered Company Name	ISO Country Code
03078711	BRITISH GAS TRADING LIMITED	GB
03782443	E.ON NEXT ENERGY LIMITED	GB
12291202	MORRISON ENERGY SERVICES LIMITED	GB

ISD Entity ID~~d~~   2   -   GSP Licensed Distribution System Operator

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

Column Name	Data Type/Length	Other information
GSP Group ID~~d~~	2 characters	Mandatory
Market Participant ~~Id~~ ID (aka Distributor ~~Id~~ID)	4 characters	Mandatory
Market Participant Role Code	1 Character (R)	Mandatory
Effective From Date {MPR}	Date	Mandatory (the date on which the Market Participant was Qualified as a Licensed Distribution System Operator)
Effective From Settlement Date {GGD}	Date	Mandatory (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}	Date	Optional (the last Settlement Date on which the Market Participant was active as a Licensed Distribution System Operator within the GSP Group)

Example

GSP Group ID~~d~~	Market Participant ~~Id~~ID	Market Participant Role Code	Effective From Date {MPR}	Effective From Settlement Date {GGD}	Effective To Settlement Date {GGD}
_D	MANW	R	1996-04-01	1996-04-01	
_E	MIDE	R	1996-04-01	1996-04-01	

ISD Entity ID~~d~~   4   -   SMR Agent Appointment

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

Column Name	Data Type/Length	Other information
GSP Group ID~~d~~	2 characters	Mandatory
Market Participant ID~~d~~	4 characters	Mandatory
Market Participant Role Code	1 Character (P)	Mandatory
Effective From Date {MPR}	Date	Mandatory (the date on which the Market Participant was Qualified as a SMR Agent)
Effective From Date {PAA}	Date	Mandatory (the first day on which the Market Participant became active as a SMR Agent within the GSP Group)
Effective To Date {PAA}	Date	Optional (the last day on which the Market Participant was active as a SMR Agent within the GSP Group)

Example

GSP Group ID~~d~~	Market Participant ID~~d~~	Market Participant Role Code	Effective From Date {MPR}	Effective From Date {PAA}	Effective To Date {PAA}
_A	EELC	P	1996-04-01	1996-04-01	
_B	EMEB	P	1996-04-01	1996-04-01	

ISD Entity ID~~d~~   14   -   Clock Time Change

Change Date	GMT Time	Post Change Local Time

Column Name	Data Type/Length	Other information
Change Date	Date	Mandatory, The day on which the clocks change (forward or back)
GMT Time	Time	Mandatory, 24 hour format e.g. (01:00:00), the time in GMT at which the clocks change (forward or back)
Post Change Local Time	Time	Mandatory, 24 hour format e.g. (02:00:00), the local time shown on the clock after the change (forward or back)

Example

Change Date	GMT Time	Post Change Local Time	
1998-03-29	01:00:00	02:00:00	Clocks go forward
1998-10-25	01:00:00	01:00:00	Clocks go back

ISD Entity ID   17   -   DUoS Tariff ID~~d~~

Market Participant ID~~d~~	Market Participant Role Code	Effective From Date {MPR}	GSP Group Id~~ID~~	DUoS Tariff ID~~d~~	DUoS Tariff Description	Effective From Settlement Date {DUoS ID~~Id~~}	Effective To Settlement Date {DUoS I~~d~~D}	DUoS Tariff Domestic Premises Indicator	DUoS Tariff Energy Direction	LLF I~~d~~D	MS Specific LLF ID~~d~~ Indicator

Column Name | **Data Type/Length** | **Other information**

Column Name	Data Type/Length	Other information
Market Participant ID~~d~~	4 characters	Mandatory, the LDSO MPID
Market Participant Role Code	1 character (R)	Mandatory
Effective From Date {MPR}	Date	Mandatory (the date on which the Market Participant was Qualified as a Licensed Distribution System Operator)
GSP Group Id~~ID~~	2 characters	Mandatory
DUoS Tariff Id~~ID~~	Up to 3 characters	Mandatory. Alphanumeric, excludes '000' or any combination beginning '0' or '00', lower case letters, special characters and any combination using 'I' or 'O'
DUoS Tariff Description	Up to 50 characters	Mandatory
Effective From Settlement Date {DUoS Tariff I~~d~~D}	Date	Mandatory (the first Settlement Date on which the DUoS Tariff ID~~d~~ is active)
Effective To Settlement Date {DUoS Tariff I~~d~~D}	Date	Optional (the last Settlement Date on which the DUoS Tariff ID~~d~~ is active)
DUoS Tariff Domestic Premises Indicator	Boolean	Mandatory, T or F
DUoS Tariff Energy Direction	1 character	Mandatory, E or I
Line Loss Factor Identifier	3 characters	Mandatory.~~-~~ Alphanumeric, excludes '000' or any combination beginning '0' or '00', lower case letters, special characters and any combination using 'I' or 'O'
MS Specific LLF I~~d~~D Indicator	1 character	Mandatory. A, B, C or D, A (General LLF Class Import), B (Site Specific Import), C (General LLF Class Export) and D (Site Specific Export

Example

Market Participant Id	Market Participant Role Code	Effective From Date {MPR}	GSP Group ID~~d~~	DUoS Tariff Id~~ID~~	DUoS Tariff Description	Effective From Settlement Date {DUoS I~~d~~D}	Effective To Settlement Date {DUoS I~~d~~D}	DUoS Tariff Domestic Premises Indicator	DUoS Tariff Energy Direction	LLF ID~~d~~	MS Specific LLF ID~~d~~ Indicator
NORW	R	1996-04-01	_G	300	ARMISTEAD WF IMPORT	2012-09-19		F	I	111	B
FEAL	R	2017-11-15	_A	100	LV_A/LV HH METERED	2022-03-31		T	I	A22	A

ISD Entity ~~Id~~ID   18   -   GSP Group

GSP Group I~~d~~D	GSP Group Name

Column Name	Data Type/Length	Other information
GSP Group I~~d~~D	2 characters	Mandatory
GSP Group Name	Up to 30 characters	Mandatory

Example

GSP Group I~~d~~D	GSP Group Name
_K	South Wales
_L	South Western
_M	Yorkshire

ISD Entity ~~Id~~ID   21   -   Market Role

Market Participant Role Code	Market Role Description

Column Name	Data Type/Length	Other information
Market Participant Role Code	1 Character	Mandatory
Market Role Description	Up to 40 characters	Mandatory

Example

Market Participant Role Code	Market Role Description
X	Supplier
R	Distributor

ISD Entity ~~Id~~ID   23   -   Settlement Period Duration

Settlement Period Duration	Settlement Period Duration (Description)	Effective from Settlement Date {SPD}	Effective to Settlement Date {SPD}

Column Name	Data Type/Length	Other information
Settlement Period Duration	Integer 2	Mandatory
Settlement Period Duration (Description)	50 characters	
		Mandatory
Effective From Settlement Date {SPD}	Date	Mandatory, YYYY-MM-DD
Effective To Settlement Date {SPD}	Date	Optional, YYYY-MM-DD

Example

Settlement Period Duration	Settlement Period Duration (Description)	Effective from Settlement	Effective to Settlement Date {SPD}
30	[IR5]The duration of a Settlement Period in Minutes	1996-04-01	

ISD Entity ID~~d~~ 43 - Day Type

Day Type I~~d~~D	Day Type I~~d~~D Description

Column Name	Data Type/Length	Other information
Day Type ID~~d~~	2 Characters	Mandatory
Day Type ID~~d~~ Description	Up to 30 characters	Mandatory

Example

Day Type ~~Id~~ID	Day Type ~~Id~~ ID Description
A2	Late August Bank Holiday
BD	Boxing Day
CD	Christmas Day
EM	Easter Monday

ISD Entity ~~Id~~ID   44   -   Energisation Status

Energisation Status	Energisation Status Description

Column Name	Data Type/Length	Other information
Energisation Status	1 Character	Mandatory
Energisation Status Description	Up to 30 characters	Mandatory

Example

Energisation Status	Energisation Status Description
D	De-Energised
E	Energised

ISD Entity ~~Id~~ID   45   -   Market Participant Role

Company Registration Number	
Market Participant I~~d~~D	
Market Participant Role Code	
Effective From Date {MPR}	
Effective To Date {MPR}	
Distributor Short Code	
Trading Party I~~d~~D	

Column Name	**Data Type/Length**	**Other information**
Company Registration Number[1]	Up to 10 characters	Mandatory
Market Participant I~~d~~D[2]	4 characters	Mandatory
Market Participant Role Code[3]	1 character	[IR5]Optional
Effective From Date {MPR}	Date	Mandatory
Effective To Date {MPR}	Date	Optional
Distributor Short Code	Integer	Conditional Mandatory if Market Participant Role Code is R (Distributor), P (SMRA) or 3 (UMSO), otherwise Null
Trading Party I~~d~~D	4 characters	For Suppliers this field is mandatory, and should be the same as the Market Participant I~~d~~D (unless otherwise agreed with BSCCo or due to recognized circumstances e.g. where the Supplier I~~d~~D has been transferred due to a trade sale). For non-Suppliers, this field is not required, and should be left blank.

1 The valid set of values is contained in the ISD table Market Participant Organisations (ISD Entity I~~d~~D 1)

2 Where an MPID is related to the following Market Roles: Meter Operator, Advanced MOA or Smart MOA,
the MPID and Market Role combinations must always be assigned to the same Company ~~ID~~Registration Number.

3 The valid set of values is contained in the ISD table Market Role (ISD Entity I~~d~~D 21)

Example

Company Registration Number	04945062
Market Participant Id	BMET
Market Participant Role Code	M
Effective From Date {MPR}	~~01 07~~ 2006~~-07-01~~

Company Registration Number	04945062
Effective To Date {MPR}	
Distributor Short Code	
Trading Party ID~~d~~	
Company Registration Number	03078711
Market Participant Id	BGAS
Market Participant Role Code	X
Effective From Date {MPR}	~~01 04~~ 1996-04-01
Effective To Date {MPR}	
Distributor Short Code	
Trading Party ID~~d~~	
Company Registration Number	02228168
Market Participant ID~~d~~	UKPD
Market Participant Role Code	R
Effective From Date {MPR}	~~16 03~~ 2016-03-16
Effective To Date {MPR}	
Distributor Short Code	31
Trading Party ID~~d~~	

ISD Entity IDd   47   -   Measurement Quantity

Measurement Quantity Id	Measurement Quantity Description	Energy Direction

Column Name	Data Type/Length	Other information
Measurement Quantity Id	2 Characters	Mandatory
Measurement Quantity Description	Up to 50 Characters	Mandatory
Energy Direction	1 Character	Mandatory, E or I

Example

Measurement Quantity Id	Measurement Quantity Description	Energy Direaction
AE	Active kWh export (Generation)	E
AI	Active kWh import (Consumption)	I
AL	Alarm	I
AM	AMPS MAXIMUM DEMAND (Amps)	I
AR	Phase Advance Reactive	I

ISD Entity ID~~d~~   51   -   Settlement Type

Settlement Code	Settlement Sequence Number	Settlement Code Description

Column Name	Data Type/Length	Other information
Settlement Code	2 Characters	Mandatory
Settlement Sequence Number	Integer (1 – 99)	Optional
Settlement Code Description	Up to 50 Characters	Mandatory

Example

Settlement Code	Settlement Sequence Number	Settlement Code Description
DR		Dispute
II	1	Interim Information Volume Allocation
SF	2	Final Initial Volume Allocation
R1	3	First Reconciliation Volume Allocation
R2	4	Second Reconciliation Volume Allocation
R3	5	Third Reconciliation Volume Allocation
RF	6	Final Reconciliation Volume Allocation
DF	7	Final Dispute

ISD Entity ID~d~ 61 - BM Unit for Supplier in GSP Group

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

Column Name	Data Type/Length	Other information
GSP Group ID~d~	2 Characters	Mandatory
Market Participant (Supplier) ID~d~	4 Characters	Mandatory[1]
Market Participant Role Code	1 Character	Mandatory, Always X
Effective From Date {MPR}	Date	Mandatory (the date must match the Effective From Date {BMUIGG} and the Supplier Base BM Unit in CRA)
BM Unit Id	11 Characters	Mandatory
Effective From Date {BMU Id~Id~ID}	Date	Mandatory (the first day on which the BM Unit was active within the GSP Group)
Effective To Date {BMU I~d~D}	Date	Optional (the last day on which the BM Unit was active within the GSP Group)

Example

---

[1] The Market Participant Role Code will always be "X" for those Suppliers who choose to implement Multiple BM Units.

GSP Group I~~D~~d	Market Participant (Supplier) Id	Market Participant Role Code	Effective From Date {MPR}	BM Unit I~~D~~d	Effective From Settlement Date {BMU ~~IGG~~ID}	Effective To Settlement Date (BMU ~~IGG~~ID)
_A	SOUT	X	1996-04-01	2__ASOUT000	2000-09-08	
_B	SEEB	X	1996-04-01	2__BSEEB000	2000-09-01	

ISD Entity I~~D~~D   M1   -   Market Segment

Market Segment Indicator	Effective From Settlement Date {MSI}	Market Segment Description

Column Name	Data Type/Length	Other information
Market Segment Indicator	1 characters	Mandatory. Either 'U', 'S' or 'A'
Effective From Settlement Date {MSI}	Date	Mandatory
Market Segment Description	Up to 50 characters	Mandatory

Example

Market Segment Indicator	Effective From Settlement Date	Market Segment Description
U	2025-04-01	Unmetered Supplies Market Segment
S	2025-04-01	Smart and Non-smart Market Segment
A	2025-04-01	Advanced Market Segment

ISD Entity ID̶d̶   M2   -   Connection Type Indicator

Connection Type Indicator	Connection Type Description

Column Name	Data Type/Length	Other information
Connection Type Indicator	1 characters	Mandatory, Either W, L, H, E or U
Connection Type Description	Up to 50 characters	Mandatory. Either Whole Current, Low Voltage with Current Transformer. High Voltage with Current T̶t̶ransformer, Extra High Voltage with Current Transformer or Unmetered

Example

Connection Type Indicator	Connection Type Description
W	Whole Current
L	Low Voltage with Current Transformer
H	High Voltage with Current t̶T̶ransformer
E	Extra High Voltage with Current Transformer
U	Unmetered

ISD Entity I~~D~~d   M3   -   Line Loss Factor Identifier

Market Participant Id	Line Loss Factor Identifier	LLF I~~D~~d Description	MS Specific LLF I~~d~~D Indicator	Effective From Settlement Date {LLF I~~D~~d}	Effective To Settlement Date {LLF I~~D~~d}

Column Name	**Data Type/Length**	**Other information**
Market Participant I~~D~~d	4 characters	Mandatory, the LDSO MPID
Line Loss Factor Identifier	Up to 3 characters	Mandatory. Alphanumeric, excludes '000' or any combination beginning '0' or '00', lower case letters, special characters and any combination using 'I' or 'O'
LLF I~~D~~d Description	Up to 50 characters	Mandatory
MS Specific LLF I~~d~~D Indicator	1 character	Mandatory. A, B, C or D, A (General LLF Class Import), B (Site Specific Import), C (General LLF Class Export) and D (Site Specific Export
Effective From Settlement Date {LLF I~~d~~D}	Date	Mandatory (the first Settlement Date on which the LLF I~~D~~d is active)
Effective To Settlement Date {LLF I~~D~~d}	Date	Optional (the last Settlement Date on which the LLF I~~D~~d is active)

Example

Market Participant I~~D~~d	Line Loss Factor Identifier	LLF I~~d~~D Description	MS Specific LLF I~~D~~ ~~d~~ Indicator	Effective From Settlement Date {LLF I~~d~~D}	Effective To Settlement Date {LLF I~~D~~d}
NORW	123	Low Voltage Network	A	2025-04-01	
SEEB	567	NEWHVN - Import	B	2025-04-01	
SWEB	910	LV Generation HH	C	2025-04-01	

ISD Entity I~~D~~Dd   M4   -   Load Shape Categories

Market Segment Indicator	GSP Group I~~D~~Dd	Domestic Premises Indicator	Measurement Quantity	Non-Smart Switched Load Profile	Off-Peak Period (UTC) Start Time	Off-Peak Period (UTC) End Time	Connection Type Indicator	De-minimis Data Count

Column Name	Data Type/Length	Other information
Market Segment Indicator	1 character	Mandatory
GSP Group I~~D~~Dd	2 characters	Optional
Domestic Premises Indicator	~~Boolean~~1 character	Optional. Either T or F
Measurement Quantity	2 characters	Mandatory. Either Active Import 'AI' or Active Export 'AE'
Non-Smart Switched Load Profile Class	Up to 2 characters	Optional. Either '02'or '04'
Off-Peak Period (UTC) Start Time	12 characters	Optional, Either ~~'~~00:00 or ~~'~~00:30'
Off-Peak Period (UTC) End Time	12 characters	Optional, Either '~~'~~07:00 or '~~'~~07:30'
Connection Type Indicator	1 characters	Mandatory. Either W, L, H, E or U
De-minimis Data Count	Int(3)	Mandatory

Example

Market Segment Indicator	GSP Group I~~D~~Dd	Domestic Premises Indicator	Measurement Quantity	Non-Smart Switched Load Profile	Off-Peak Period (UTC) Start Time	Off-Peak Period (UTC) End Time	Connection Type Indicator	De-minimis Data Count
S	_A	T	AI	02	00:00	07:00	W	50
S	_A	F	AI	04	00:00	07:00	W	50
S	_A	T	AE				W	50
S	_A	F	AE				W	50

ISD Entity Id   M5   -   MHHS Consumption Component Classes

CCC IDd	Market Segment Indicator	Measurement Quantity	Consumption Component Indicator	Connection Type Indicator	Settlement Period Quality Indicator

Column Name	Data Type/Length	Other information
CCC IDd	Int(3)	Mandatory. Unique Identifier for MHHS Consumption Component Classes
Market Segment Indicator	1 character	Mandatory. Either Unmetered 'U', Smart 'S' or Advanced 'A'
Measurement Quantity	2 characters	Mandatory. Either Active Import 'AI' or Active Export 'AE'
Consumption Component Indicator	1 character	Mandatory. Either Consumption 'C' or Losses 'L'
Connection Type Indicator	1 character	Mandatory. Either Whole Current 'W', Low Voltage 'L',High Voltage 'H', Extra High Voltage 'E' or Unmetered 'U'
Settlement Period Quality Indicator	5 characters	Mandatory. E.g. A, E1, E2, E3, E4

Example

CCC IDd	Market Segment Indicator	Measurement Quantity	Consumption Component Indicator	Connection Type Indicator	Settlement Period Quality Indicator
104	U	AI	C	U	E
104	U	AI	C	U	ZE
105	U	AI	L	U	E
105	U	AI	L	U	ZE
106	U	AE	C	U	A
107	U	AE	L	U	A
108	S	AI	C	W	A
109	S	AI	L	W	A
110	S	AE	C	W	A

ISD Entity ID~~d~~   M6   -   MHHS GSPG Scaling Weights

CCC ID~~d~~	GSPG Scaling Weight	Effective From Date {GSPGSW}	Effective To Date {GSPGSW}

Column Name	Data Type/Length	Other information
CCC ID~~d~~	Integer 3	Mandatory. Unique Identifier for MHHS Consumption Component Classes
GSPG Scaling Weight	Num(3), 2 decimal places	Mandatory
Effective From Date {GSPGSW}	Date	Mandatory
Effective To Date {GSPGSW}	Date	Optional

Example

CCC ID~~d~~	GSPG Scaling Weight	Effective From Date {GSPGSW}	Effective To Date {GSPGSW}
100	1.20	2025-04-01	
101	1.40	2025-04-01	
102	1.20	2025-04-01	
103	1.40	2025-04-01	
104	1.40	2025-04-01	

ISD Entity ID~~d~~   M7   -   Valid Market Segment/ Connection/ Meter Type/ Meter Group

Market Segment Indicator	Connection Type Indicator	Meter Type	Meter Group

Column Name	Data Type/Length	Other information
Market Segment Indicator	1 character	Mandatory. Either 'U', 'S' or 'A'
Connection Type Indicator	1 character	Mandatory, Either W, L, H, E and U
Meter Type	Up to 5 characters	Mandatory, Valid Set as per EMAR[2] or U for Unmetered
Meter Group	Up to 11 characters	Mandatory. Either Smart, Traditional~~, or~~ Advanced or Unmetered

Example

Market Segment Indicator	Connection Type Indicator	Meter Type	Meter Group
~~S~~	~~W~~	~~N~~	~~Traditional~~
~~S~~	~~W~~	~~S1~~	~~Smart~~
~~A~~	~~L~~	~~RCAMR~~	~~Advanced~~
~~A~~	~~L~~	~~RCAMY~~	~~Advanced~~
~~U~~	~~U~~	~~-~~	~~-~~
S	W	S1	Smart
S	W	S2A	Smart
S	W	S2B	Smart
S	W	S2C	Smart
S	W	S2AD	Smart
S	W	S2BD	Smart
S	W	S2CD	Smart
S	W	S2ADE	Smart

---

[2] Energy Market Architecture Repository (EMAR)

Market Segment Indicator	Connection Type Indicator	Meter Type	Meter Group
S	W	S2BDE	Smart
S	W	S2CDE	Smart
S	W	2ADF	Smart
S	W	2ADEF	Smart
S	W	2AEF	Smart
S	W	2AF	Smart
S	W	2BF	Smart
S	W	2BDF	Smart
S	W	2BDEF	Smart
S	W	2BEF	Smart
S	W	2CDEF	Smart
S	W	2CF	Smart
S	W	2CDF	Smart
S	W	2CEF	Smart
S	W	K	Traditional
S	W	N	Traditional
S	W	NSS	Traditional
S	W	S	Traditional
S	W	SPECL	Traditional
S	W	T	Traditional
A	W	H	Advanced
A	W	LAG	Advanced
A	W	LEAD	Advanced
A	W	MAIN	Advanced
A	W	NCAMR	Advanced
A	W	RCAMR	Advanced
A	W	RCAMY	Advanced
A	L	H	Advanced
A	L	LAG	Advanced
A	L	LEAD	Advanced

Market Segment Indicator	Connection Type Indicator	Meter Type	Meter Group
A	L	MAIN	Advanced
A	L	NCAMR	Advanced
A	L	RCAMR	Advanced
A	L	RCAMY	Advanced
A	H	H	Advanced
A	H	LAG	Advanced
A	H	LEAD	Advanced
A	H	MAIN	Advanced
A	H	NCAMR	Advanced
A	H	RCAMR	Advanced
A	H	RCAMY	Advanced
A	E	H	Advanced
A	E	LAG	Advanced
A	E	LEAD	Advanced
A	E	MAIN	Advanced
A	E	NCAMR	Advanced
A	E	RCAMR	Advanced
A	E	RCAMY	Advanced
U	U	U	Unmetered

ISD Entity I~~d~~D   M8   -   Valid Market Segment/ Metering Service Mapping

Market Segment Indicator	Metering Service Id {MS I~~d~~D}	Effective From Date {MS I~~d~~D}	Effective To Date {MS I~~d~~D}

Column Name	Data Type/Length	Other information
Market Segment Indicator	1 character	Mandatory. Either, 'S' or 'A'
Metering Service I~~d~~D {MS I~~d~~D}	4 characters	Mandatory, A Valid Metering Service MPID
Effective From Date {MS I~~d~~D}	Date	Mandatory, YYYY-MM-DD
Effective To Date {MS I~~d~~D}	Date	Optional, YYYY-MM-DD

Example

Market Segment Indicator	Metering Service I~~d~~D {MS I~~d~~D}	Effective From Date {MS I~~d~~D}	Effective To Date {MS I~~d~~D}
S	ACCU	2025-04-01	
A	DASL	2025-04-01	
A	SPOW	2025-04-01	

ISD Entity I~~D~~d   M9   -   UMS Charge Codes

Charge Code	Nominal Watts	Unit Description 1	Unit Description 2	Company	Manufacturer's Designation	Circuit Watts	Dimmed Circuit Watts	Effective From Date {CC}	Effective To Date {CC}	Equipment Type

Column Name	Data Type/Length	Other information
Charge Code	13 Characters	Mandatory
Nominal Watts	NUM(7,2)	Mandatory
Unit Description 1	Up to 100[IR6] characters	Mandatory
Unit Description 2	Up to 100 characters	Optional
Company	Up to 50 characters	Mandatory
Manufacturer's Designation	Up to 100[IR7] characters	Optional
Circuit Watts	Up to NUM(7,2)	Mandatory
Dimmed Circuit Watts	Up to NUM(7,2)	Optional
Effective From Date {CC}	Date	Mandatory
Effective To Date {CC}	Date	Optional
Equipment Type	Up to 50 characters	Mandatory

Example

Charge Code	Nominal Watts	Unit Description 1	Unit Description 2	Company	Manufacturer's Designation	Circuit Watts	Dimmed Circuit Watts	Effective From Date {CC}	Effective To Date {CC}	Equipment Type
0100240000100	24	General lighting service filament	Tungsten	Generic	None	24		2005-06-01		Lamps
0100250000100	25	General lighting service filament	GLS GLD	Generic	None	25		2005-06-01		Lamps
0100400000100	40	General lighting service filament	GLS GLD	Generic	None	40		2005-06-01		Lamps
0100600000100	60	General lighting service filament	GLS GLD	Generic	None	60		2005-06-01		Lamps

ISD Entity I~~D~~Dd   M10 -   UMS Manufacturer Equipment LED Range Charge Codes

Manufacturer	Manufacturers Designation	Generic LED Codes – Lower Limit	Generic LED Codes – Upper Limit	Effective From Date {LEDCC}	Effective To Date {LEDCC}

Column Name	Data Type/Length	Other information
Manufacturer	Up to 50 characters	Mandatory
Manufacturers Designation	Up to 100[IR6] characters	Mandatory
Generic LED Codes – Lower Limit	13 Characters	Mandatory
Generic LED Codes – Upper Limit	13 Characters	Mandatory
Effective From Date {LEDCC}	Date	Mandatory
Effective To Date {LEDCC}	Date	Optional

Example

Manufacturer	Manufacturers Designation	Generic LED Codes – Lower Limit	Generic LED Codes – Upper Limit	Effective From Date {LEDCC}	Effective To Date {LEDCC}
Acrospire Products	ACRO-12L-MODULE-19W	4200190000100	4200190000100	2019-10-23	
Acrospire Products	ACRO-12L-MODULE-28W	4200280000100	4200280000100	2019-10-23	
Acrospire Products	ACRO-12L-MODULE-43W	4200430000100	4200430000100	2019-10-23	
Acrospire Products	ACRO-24L-MODULE-43W	4200430000100	4200430000100	2019-10-23	
Acrospire Products	ACRO-24L-MODULE-69W	4200690000100	4200690000100	2019-10-23	
Acrospire Products	ACRO-24L-MODULE-83W	4200830000100	4200830000100	2019-10-23	

ISD Entity I~~D~~Dd   M11 -   UMS Switch Regimes

Switch Regime	SR Description	After Sunset	Before Sunrise	Lux On	Lux Off	Intermediate Off	Intermediate On	Switch On	Switch Off	Default Switch Regime	GMT/ CLK	Effective From Date {SR}	Effective To Date {SR}

Column Name	Data Type/Length	Other information
Switch Regime	3 characters	Mandatory
SR Description	Up to 100 characters	Mandatory
After Sunset	Num(2)	Optional
Before Sunrise	Num(2)	Optional
Lux On	Num(3)	Optional
Lux Off	Num(3)	Optional
Intermediate Off	Time	Optional HH:MM e.g. 00:00.
Intermediate On	Time	Optional HH:MM e.g. 00:00.
Switch On	Time	Optional HH:MM e.g. 00:00.
Switch Off	Time	Optional HH:MM e.g. 00:00.
Default Switch Regime	3 characters	Mandatory
GMT/ CLK	3 characters	Mandatory, GMT or CLK
Effective From Date {SR}	Date	Mandatory. YYYY-MM-DD
Effective To Date {SR}	Date	Optional. YYYY-MM-DD

N.B this Entity M11 Unmetered Supplies Switch Regimes will incorporate the Switch Regime data for Unmetered Supplies Highway Message Sign and Indicator Sign Operating Hours.

Example

Switch Regime	SR Description	After Sunset	Before Sunrise	Lux On	Lux Off	Intermediate Off	Intermediate On	Switch On	Switch Off	Default Switch Regime	GMT/ CLK	Effective From Date {SR}	Effective To Date {SR}
200	Dusk to Dawn	30	30								GMT	2017-07-19	

Switch Regime	SR Description	After Sunset	Before Sunrise	Lux On	Lux Off	Intermediate Off	Intermediate On	Switch On	Switch Off	Default Switch Regime	GMT/ CLK	Effective From Date {SR}	Effective To Date {SR}
201	Dawn to Dusk	17	18								GMT	2017-07-19	
411	Thermal PEC			55	110						GMT	2011-04-05	

ISD Entity I~~D~~d   M12 -   UMS Variable Power Switch Regimes

Switch Regime	PECU lux level/ Time	GMT or Clock	On Event	% Power	Switch Event 2	% Power	Switch Event 3	% Power	Switch Event 4	% Power	Switch Event 5	% Power	Switch Event 6

% Power	Switch Event 7	% Power	Switch Event 8	% Power	Off Event

Column Name	Data Type/Length	Other information
Switch Regime	3 characters	Mandatory
PECU lux level/ Time Setting	10 characters	Mandatory. e.g. 70/35, 55/28, 35/18, 20/20, 10/10 and 5/5.
GMT or Clock	3 characters	Mandatory. GMT or CLK
On Event	5 characters	Mandatory. PECUS or TIMER
% Power	Num(3)	Mandatory. 0 to 100
Switch Event 2	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 3	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 4	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 5	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 6	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 7	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Switch Event 8	Time	Optional. e.g. 00:00
% Power	Num(3)	Optional. 0 to 100
Off Event	5 characters	Mandatory. PECUS, TIMER or NEVER

Example

Switch Regime	PECU lux level/ Time	GMT or Clock	On Event	% Power	Switch Event 2	% Power	Switch Event 3	% Power	Switch Event 4	% Power	Switch Event 5	% Power	Switch Event 6
A01	70/35	GMT	PECUS	100	15:00	100	21:30	75	00:00	50	05:00	75	
A02	70/35	GMT	PECUS	100	15:00	100	22:00	50	23:00	10	06:00	50	
A03	70/35	GMT	PECUS	100	15:00	100	22:00	50	23:00	25	06:00	50	

% Power	Switch Event 7	% Power	Switch Event 8	% Power	Off Event
					PECUS
					PECUS
					PECUS

ISD Entity I~~D~~D~~d~~   M14 -   Master Settlement Timetable

Settlement Date	Day Type I~~D~~D~~d~~	Settlement Code	LSS Run Date	CDCA Run Date	MDS Run Date	VAS Run Date	SAA Run Date	Notification Date	Payment Date

Column Name	Data Type/Length	Other information
Settlement Date	Date	Mandatory. YYYY-MM-DD
Day Type I~~D~~D~~d~~	2 characters	Mandatory. Valid value as per Entity 43
Settlement Code	2 characters	Mandatory. Valid value as per Entity 51
LSS Run Date	Date	[IR6]Optional. YYYY-MM-DD
CDCA Run Date	Date	Mandatory. YYYY-MM-DD
MDS Run Date	Date	Mandatory- YYYY-MM-DD
VAS Run Date	Date	Mandatory. YYYY-MM-DD
SAA Run Date	Date	Mandatory. YYYY-MM-DD
Notification Date	Date	Optional. YYYY-MM-DD
Payment Date	Date	Optional. YYYY-MM-DD

Example

Settlement Date	Day Type I~~D~~D~~d~~	Settlement Code	LSS Run Date	CDCA Run Date	MDS Run Date	VAS Run Date	SAA Run Date	Notification Date	Payment Date
2025-04-01	WE	II	2025-04-04	2025-04-04	2025-04-04	2025-04-08	2025-05-09	2025-04-10	2025-04-15

ISD Entity ID̶d̶   M15 -   Consent Granularity

Consent Granularity	Consent Granularity Description

Column Name	Data Type/Length	Other information
Consent Granularity	1 characters	Mandatory
Consent Granularity Description	Up to 60 characters	Mandatory

Example

Consent Granularity	Consent Granularity Description
H	Half-Hourly Consumption data can be collected
D	Daily Consumption or Register data can be collected
M	Monthly Consumption or Register data can be collected
N	No Consent

ISD Entity IDd   M16 -   Market Participant to DIP Participant Mapping

Market Participant IDd	Market Participant Role Code	DIP Participant IDd	DIP Market Role	Effective From Date {MP2DPM}	Effective To Date {MP2DPM}

Column Name	Data Type/Length	Other information
Market Participant IDd	4 characters	Mandatory
Market Participant Role Code[1,3]	1 character	[IR5]Optional
[IR3]DIP Participant IDd	10 characters	Mandatory
DIP [IR6]Market Role	Min 3 /Max 5 character/	Mandatory
Effective From Date {MM2DPM}[2]	Date	Mandatory
Effective To Date {MM2DPM}[2]	Date	Optional

1 The valid set of values is contained in the ISD table Market Role (ISD Entity Id ID 21)
2 The Effective From and To Dates refer to this Market Participant to DIP Participant Mapping table.
3 [IR6] Allocation of a Market Participant Role Code may not always be possible, for example, as with MDRs where this value shall remain blank..

Example

Market Participant IDd	Market Participant Role Code	DIP Participant IDd	DIP Market Role	Effective From Date {MP2DPM}	Effective To Date {MP2DPM}
BGAS	X	0307871100	SUP	2023-04-01	
ACCU	T	0123456799	MSA		
ACCU	O	0123456788	ADS		
ACCU	S	0123456777	MSS		
ACCU	N	0123456766	SDS		
SEEB	3	0123456755	UMSO		
NEEB	Q	0123456744	UDS		
YELG	R	0123456733	LDSO		
SWAL	P	1122334455	REGS		

Market Participant ID~d~	Market Participant Role Code	DIP Participant ID~d~	DIP Market Role	Effective From Date {MP2DPM}	Effective To Date {MP2DPM}
MDR1	\<null\>	0123456722	MDR		

Note:

MDS, LSS, EES, VAS, ISD & DIP are valid DIP Roles, utilised for message routing, but ~~that~~ may not be maintained in this table.

CSS, DCP, DCC, MAP, MRS, are valid DIP Roles, which are reserved for future use, which again may not be maintained in this table.

The full list of DIP Role Codes is maintained in ISD Entity "M18 - DIP Role Codes"

ISD Entity I~~Dd~~ M17 - Valid ~~Energy Direction/ Domestic Premises Indicator /~~Consent Granularity Combinations

Energy Direction	Domestic Premises Indicator	Market Segment Indicator	Meter Group[IR7]	Consent Granularity

Column Name	Data Type/Length	Other information
Energy Direction	1 character	Mandatory, E or I
Domestic Premises Indicator	Boolean	Mandatory Either T or F
[IR3]Market Segment Indicator	1 character	Mandatory. Either Unmetered 'U', Smart 'S' or Advanced 'A'
Meter Group	Up to ~~20~~ 11 characters	Mandatory, Either Smart, Advanced, Unmetered or Traditional
Consent Granularity	1 characters	Mandatory. Either H, M or D

Example

Energy Direction	Domestic Premises Indicator	Market Segment Indicator	Meter Group	Consent Granularity
I	T	S	Smart	H
I	T	S	Smart	D
I	T	S	Smart	M
I	F	S	Smart	H
I	T	A	Advanced	H
I	T	A	Advanced	D
I	T	A	Advanced	M
I	F	A	Advanced	H
I	F	U	Unmetered	H
E	T	S	Smart	H
E	F	S	Smart	H
E	T	A	Advanced	H

Energy Direction	Domestic Premises Indicator	Market Segment Indicator	Meter Group	Consent Granularity
E	F	A	Advanced	H
E	T	U	Unmetered	H
I	T	S	Traditional	N
E	T	S	Traditional	N
I	F	S	Traditional	N
E	F	S	Traditional	N

ISD Entity ID~~d~~   M18 -   DIP Market Roles

DIP Market Role	DIP Role Description	Market Participant Role Code	Effective From Date {DIP Role}	Effective To Date {DIP Role}

Column Name	Data Type/Length	Other information
DIP Market Role	min 3 / max 5 characters	Mandatory
DIP Role Description	100 characters	Mandatory
Market Participant Role Code	1 character	Optional
Effective From Date {DIP Role}[2]	Date	Mandatory
Effective To Date {DIP Role}[2]	Date	Optional

Example

DIP Market Role	DIP Role Description	Market Participant Role Code	Effective From Date {DIP Role}	Effective To Date {DIP Role}
MSA	Advanced Metering Service	T	2023-01-01	
ADS	Advanced Data Service	O	2023-01-01	
MSS	Smart Metering Service	S	2023-01-01	
MRS	Meter Reading Service	~~N/A~~	2023-01-01	
SDS	Smart Data Service	N	2023-01-01	
MDR	Meter Data Retriever	~~N/A~~	2023-01-01	
UMSO	Unmetered Supplies~~d~~	3	2023-01-01	
UDS	Unmetered Data Service	Q	2023-01-01	
MDS	Market-wide Data Service	~~N/A~~	2023-01-01	
LSS	Load Shaping Service	~~N/A~~	2023-01-01	
ISDS	Industry Standing Data Service	~~N/A~~	2023-01-01	
VAS	Volume Allocation Service	~~N/A~~	2023-01-01	
REGS	Registration Service	P	2023-01-01	

DIP Market Role	DIP Role Description	Market Participant Role Code	Effective From Date {DIP Role}	Effective To Date {DIP Role}
SUP	Supplier	X	2023-01-01	
MAP	Meter Asset Provider	8	2023-01-01	
LDSO	Licenced Distribution System Operat~~orion~~	R	2023-01-01	
EES	Electricity Enquiry Service	L	2023-01-01	
CSS	Central Switching Service	~~N/A~~	2023-01-01	
DCC	Data Communications Co.	~~N/A~~	2023-01-01	
DTS	Data Transfer Service	~~N/A~~	2023-01-01	
DIP	Data Integration Platform	~~N/A~~	2023-01-01	

Formatted Table

Formatted Table

[IR5]ISD Entity I~~D~~Dd   M19 -   Settlement Period Quality Indicators

Settlement Period Quality Indicator	Actual/ Estimate

Column Name	Data Type/Length	Other information
Settlement Period Quality Indicator	Up to 5 characters	Mandatory
Actual/Estimate 30 characters		Mandatory. Either Actual, Estimate or Estimate based on Actual Read

Example

Settlement Period Quality Indicator	Actual/ Estimate
A	Actual
A1	Actual
A2	Actual
A3	Actual
E	Estimate
E1	Estimate
E2	Estimate based on Actual Read
E3	Estimate based on Actual Read
E4	Estimate
E5	Estimate
E6	Estimate based on Actual Read

[IR7]ISD Entity I~~D~~Dd   M20 -   SVA Line Loss Factors

Market Participant ID	LLF ID	Settlement Date	Settlement Period	Value

Column Name	Data Type/Length	Other information
Market Participant ID[1]	4 characters	Mandatory
LLF ID[2]	Up to 3 characters	Mandatory
Settlement Date	Date	Mandatory
Settlement Period[3]	Up to 2 characters	Mandatory
Value	Num(4), 3 decimal places	Mandatory

1   The valid set of values is contained in the ISD table Market Participant Role (ISD Entity ID 45) & SVA Market Participant ~~Id~~ ID should only allow Market Participant's with Role Code = 'R'

2   The valid set of values is contained in the ISD table Line Loss Factor Identifier (ISD Entity ID M3)

3   Should be in the range 1-50 (1-48 normally, 1-46 or 1-50 for clock change days)

Market Participant ID	LLF ID	Settlement Date	Settlement Period	Value
NEED	111	2023-04-01	1	1.035
NEED	111	2023-04-01	2	1.055
NEED	111	2023-04-01	3	1.045

IR7]ISD Entity IDᵈ　　M21　-　　CVA Line Loss Factors

Market Participant ID	MS ID	Settlement Date	Settlement Period	Value

Column Name	Data Type/Length	Other information
Market Participant ID[1]	4 characters	Mandatory
MS ID	Num(4)	Mandatory
Settlement Date	Date	Mandatory
Settlement Period[2]	Up to 2 characters	Mandatory
Value	Num(4), 3 decimal places	Mandatory

1　　　　The valid set of values is contained in the ISD table Market Participant Role (ISD Entity ID 45) & Market Participant Id ID should only allow Market Participant's with Role Code = 'R'

2　　　　Should be in the range 1-50 (1-48 normally, 1-46 or 1-50 for clock change days)

Market Participant ID	MS ID	Settlement Date	Settlement Period	Value
NEED	1212	2023-04-01	1	1.035
NEED	1212	2023-04-01	2	1.055
NEED	1212	2023-04-01	3	1.045

Note: LLF details will be published in a different file format to all other entities by ISD.

MS ID refers to Metering System Identifier