Industry Standing Data: MHHS Entities/Data Items

Version 5.~~7~~8

Contents

Introduction

For this document wherever DATE format is used for an ISD Data item, the ISO Standard 8601 short format is used, e.g. YYYY-MM-DD.
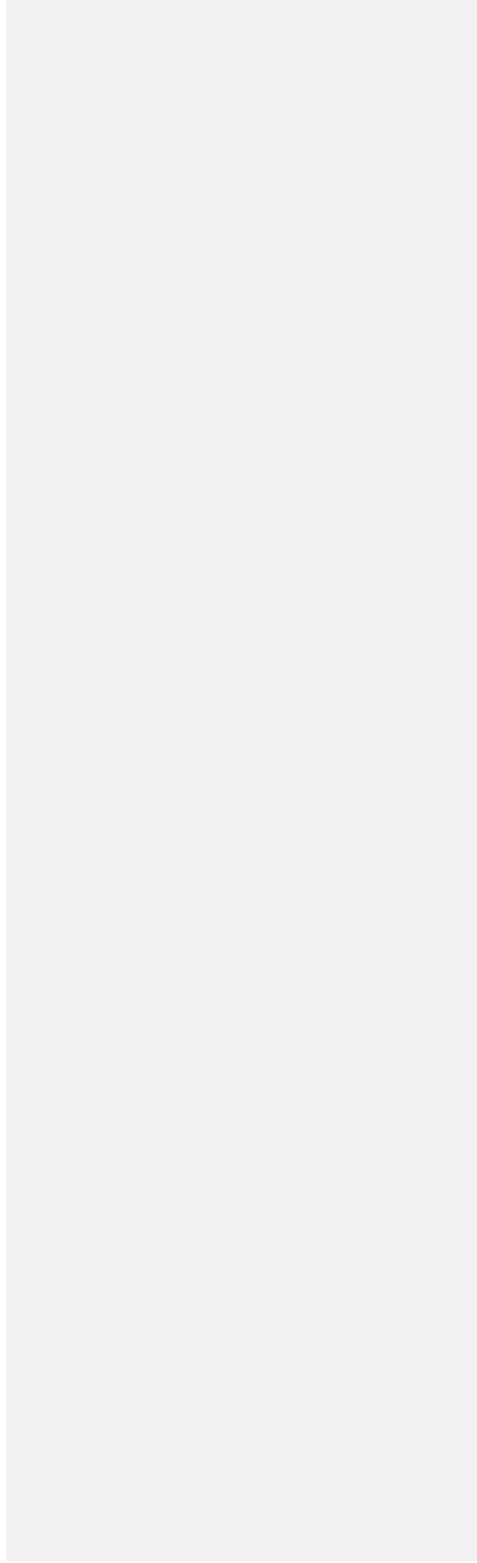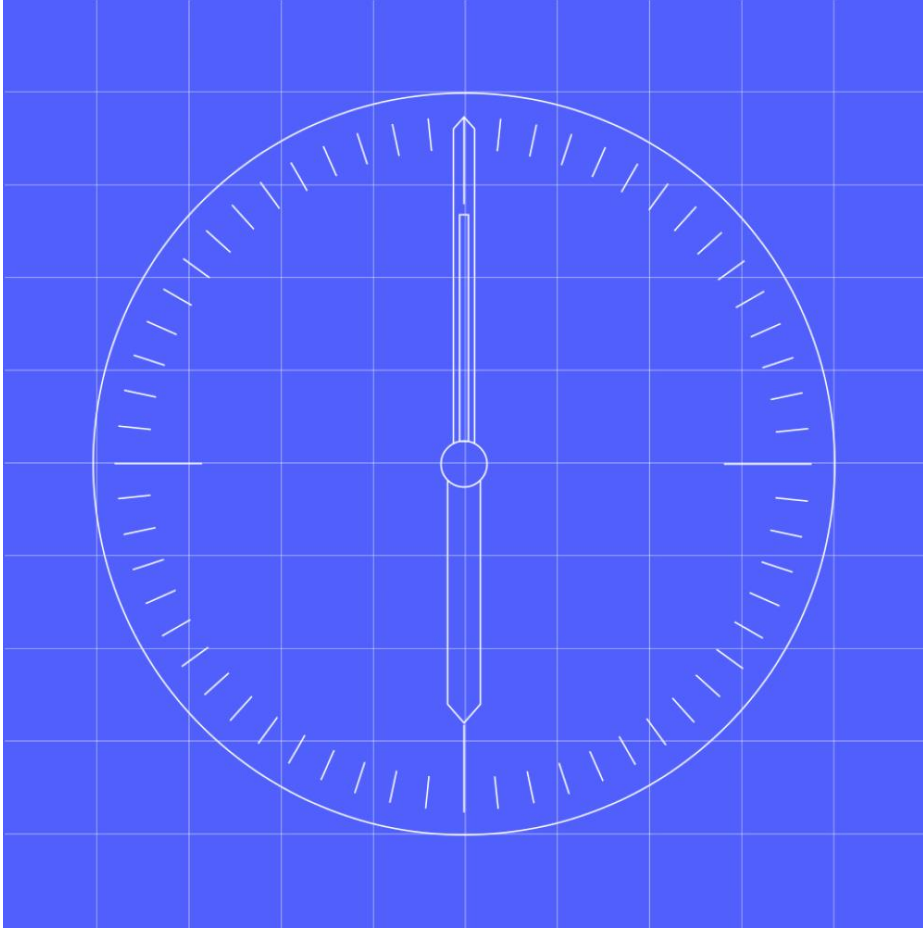
Amended Existing Entities

ISD Entity ID 1   -   Market Participant Organisation

Company Registration Number	Registered Company Name	ISO Country Code

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

Commented [M(2): DIN730

Example

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	GB

ISD Entity ID 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}

Column Name	Data Type/Length	Other information
GSP Group ID	2 characters	Mandatory
Market Participant ID	4 characters	Mandatory, the LDSO MPID
Market Participant Role Code	1 character	Mandatory, R in all cases
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	Market Participant 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 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}

Column Name	Data Type/Length	Other information
GSP Group ID	2 characters	Mandatory
Market Participant ID	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	Market Participant ID	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 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

Market Participant ID	Market Participant Role Code	Effective From Date {MPR}	GSP Group ID	DUoS Tariff ID	DUoS Tariff Description	Effective From Settlement Date {DUoS ID }	Effective To Settlement Date {DUoS ID }	DUoS Tariff Domestic Premise Indicator	DUoS Tariff Energy	LLF ID	MS Specific LLF ID Indicator

Column Name	Data Type/Length	Other information
Market Participant ID	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	2 characters	Mandatory
DUoS Tariff 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} ID }	Date	Mandatory (the first Settlement Date on which the DUoS Tariff ID is active)
Effective To Settlement Date {DUoS Tariff} ID }	Date	Optional (the last Settlement Date on which the DUoS Tariff ID is active)
DUoS Tariff Domestic Premise 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 ID Indicator	1 character	Mandatory 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}	DUoS Tariff ID	DUoS Tariff Description	Effective From Settlement Date {DUoS ID}	Effective To Settlement Date {DUoS ID}	DUoS Tariff Domestic Premise Indicator	DUoS Tariff Energy	LLF ID	MS Specific LLF ID Indicator
NORW	R	1996-04-01	300	Solway Offshore Wind, Import	2007-04-05		F	I	111	B
FEAL	R	2017-11-15	A01	LV_A/LV Dom Agg with Res	2021-11-17		T	I	A22	A

ISD Entity ID 18   -   GSP Group

GSP Group ID	GSP Group Name

Column Name	Data Type/Length	Other information
GSP Group ID	2 characters	Mandatory
GSP Group Name	Up to 30 characters	Mandatory

Example

GSP Group ID	GSP Group Name
_K	South Wales
_L	South Western
_M	Yorkshire

ISD Entity 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 (note MHHS service roles to be added)

Market Participant Role Code	Market Role Description
X	Supplier
R	Distributor

ISD Entity 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 Date {SPD}	Effective to Settlement Date {SPD}
30	The duration of a Settlement Period in minutes	1996-04-01	

ISD Entity ID 43 - Day Type ID

Day Type ID	Day Type ID Description

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

Example

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

ISD Entity 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 45   -   Market Participant Role

Company Registration Number	
Market Participant ID	
Market Participant Role Code	
Effective From Date {MPR}	
Effective To Date {MPR}	
Distributor Short Code	
Trading Party ID	

Column Name	Data Type/Length	Other information
Company Registration Number[1]	Up to 10 characters	Mandatory
Market Participant ID	4 characters	Mandatory
Market Participant Role Code[2]	1 character	Optional
Effective From Date {MPR}	Date	Mandatory
Effective To Date {MPR}	Date	Optional
Distributor Short Code[3]	Integer	Conditional Mandatory if Market Participant Role Code is R (Distributor), P (SMRA) or 3 (UMSO), otherwise Null
Trading Party ID	4 characters	For Suppliers this field is mandatory, and should be the same as the Market Participant ID (unless otherwise agreed with BSCCo or due to recognized circumstances e.g. where the supplier ID 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 ID 1)

[2] The valid set of values is contained in the ISD table Market Role (ISD Entity ID 21). It should be noted that some new MHHS Participants may not have a MPRC assigned.

[3] Propose to require Distributor Short Code to also be held against Market Participant ID for SMRA and UMSO

[4] 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.

Example

Company Registration Number	04945062
Market Participant ID	BMET
Market Participant Role Code	M
Effective From Date {MPR}	01-07-2006
Effective To Date {MPR}	
Distributor Short Code	
Trading Party ID	

ISD Entity ID 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 Direction
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 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	Int(2)	Optional, 1 to 99
Settlement Code Description	Up to 30 characters	Mandatory

Example (note the following types needed for Transition but will be reduced set post Transition completion)

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 61 - BM Unit for Supplier in GSP Group

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

Column Name	Data Type/Length	Other information
GSP Group ID	2 characters	Mandatory
Market Participant ID	4 characters	Mandatory the Supplier MPID
Market Participant Role Code	1 character	Mandatory, X in all cases
Effective From Date {MPR}	Date	Mandatory (the date must match the Effective From Date {MPR} and the Supplier Base BM Unit in CRA)
BM Unit ID	11 characters	Mandatory
Effective From Settlement Date {BMU ID}	Date	Mandatory (the first day on which the BM Unit was active within the GSP Group)
Effective To Settlement Date {BMU ID}	Date	Optional (the last day on which the BM Unit was active within the GSP Group)

Example

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

New MHHS Entities

ISD Entity ID 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 {MSI}	Market Segment Description
U	2025-04-01	Unmetered Supplies Market
S	2025-04-01	Smart and Non-smart Market
A	2025-04-01	Advanced Market Segment

ISD Entity ID 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 transformer, 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 transformer
E	Extra High Voltage with Current Transformer
U	Unmetered

ISD Entity ID M3 - Line Loss Factor Identifier

Market Participant ID	Line Loss Factor Identifier	LLF ID Description	MS Specific LLF ID Indicator	Effective From Settlement Date {LLF ID}	Effective To Settlement Date {LLF ID}

Column Name	Data Type/Length	Other information
Market Participant ID	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 ID Description	Up to 50 characters	Mandatory
MS Specific LLF ID 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 ID}	Date	Mandatory (the first Settlement Date on which the LLF Id is active)
Effective To Settlement Date {LLF ID}	Date	Optional (the last Settlement Date on which the LLF Id is active)

Example:

Market Participant ID	Line Loss Factor Identifier	LLF ID Description	MS Specific LLF ID Indicator	Effective From Settlement Date {LLF ID}	Effective To Date {LLF ID}
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 ID M4   -   Load Shape Categories

Market Segment Indicator	GSP Group ID	Load Shape Domestic Premises Indicator	Measurement Quantity ID	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 ID	2 characters	Optional,
Load Shape Domestic Premises Indicator	Boolean1 character	Optional. Either T, or F or null
Measurement Quantity ID	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:

Note: Table above is for example purposes only. A full list is available in the LSS Method Statement.

Market Segment Indicator	GSP Group ID	Load Shape Domestic Premises Indicator	Measurement Quantity ID	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 ID	Market Segment Indicator	Measurement Quantity ID	Consumption Component Indicator	Connection Type Indicator	Settlement Period Quality Indicator

Column Name	Data Type/Length	Other information
CCC ID	Int(3)	Mandatory. Unique Identifier for MHHS Consumption Component Classes
Market Segment Indicator	1 character	Mandatory. Either 'U', 'S' or 'A'
Measurement Quantity ID	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 W, L, H, E or U
Settlement Period Quality Indicator	5 characters	Mandatory. E.g. A, E1, E2, E3, E4

Example:

CCC ID	Market Segment Indicator	Measurement Quantity ID	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

Note: Table above if incomplete and for example purposes only.

Commented [RT(17)]: DIN557

Commented [TR18]: DIN-1063

Commented [TR19]: DIN-1063

Commented [M(20)]: DIN158

Commented [TR21]: DIN-1063

Commented [M(22)]: DIN409 (following DRG decision)

Commented [M(23)]: DIN409 (following DRG decision)

ISD Entity ID M6   -   MHHS GSPG Scaling Weights

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

Column Name	Data Type/Length	Other information
CCC ID	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	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	

Note: Table above if incomplete and for example purposes only.

ISD Entity ID 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 U, W, L, H, E
Meter Type	Up to 5 characters	Mandatory. Valid Set as per EMAR[1]
or U for Unmetered		
Meter Group	Up to 11 characters	Mandatory. Either Smart, Traditional, Advanced or Unmetered

Comment: **Commented [ZH24]:** DIN-1033

Comment: **Commented [ZH25]:** DIN-1033

Example:

Market Segment Indicator	Connection Type Indicator	Meter Type	Meter Group
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
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

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[1] Energy Market Architecture Repository (EMAR)

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
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 ID M8 - Valid Market Segment/ Metering Service Mapping

Market Segment Indicator	Metering Service ID {MS ID}	Effective From Date {MS ID}	Effective To Date {MS ID}

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

Example:

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

ISD Entity ID 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 characters	Mandatory.
Unit Description 2	Up to 100 characters	Optional
Company	Up to 50 characters	Mandatory.
Manufacturer's Designation	Up to 100 characters	Optional
Circuit Watts	NUM(7,2)	Mandatory
Dimmed Circuit Watts	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	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 ID 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 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

Commented [M(31]: DIN678

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 ID 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 e.g. 00:00.
Intermediate On	Time	Optional e.g. 00:00.
Switch On	Time	Optional e.g. 00:00.
Switch Off	Time	Optional 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:

See: https://www.elexon.co.uk/operations-settlement/unmetered-supplies/charge-codes-and-switch-regimes/

ISD Entity ID M12 -   UMS Variable Power Switch Regimes

Switch Regime	PECU lux level/ Time Settings	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, NEVER or TIMER

Commented [ZH32]: DIN-1002

Example:

See: https://www.elexon.co.uk/operations-settlement/unmetered-supplies/charge-codes-and-switch-regimes/

ISD Entity ID   M14 - Master Settlement Timetable

Settlement Date	Day Type ID	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 ID	2 characters	Mandatory.
Settlement Code	2 characters	Mandatory.
LSS Run Date	Date	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 ID	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 ID 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

Commented [ZH34]: DIN-980

ISD Entity ID   M16 - Market Participant to DIP Participant Mapping

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

Column Name	Data Type/Length	Other information
Market Participant ID	4 characters	Mandatory
Market Participant Role Code[1,3]	1 character	Optional
DIP Participant ID	10 characters	Mandatory
DIP Market Role	min 3 / Max 5 characters	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 21)

[2] The Effective From and To Dates refer to this Market Participant to DIP Participant Mapping table.

[3] 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 ID	Market Participant Role Code	DIP Participant	DIP Market Role	Effective From Date {MP2DPM}	Effective To Date {MP2DPM}
BGAS	X	0307871100	SUP	2023-04-01	
ACCU	T	0123456799	MSA	2023-04-01	
ACCU	O	0123456788	ADS	2023-04-01	
ACCU	S	0123456777	MSS	2023-04-01	
ACCU	N	0123456766	SDS	2023-04-01	
SEEB	3	0123456755	UMSO	2023-04-01	
NEEB	Q	0123456744	UDS	2023-04-01	
YELG	R	0123456733	LDSO	2023-04-01	
SWAL	P	1122334455	REGS	2023-04-01	
MDR1	<null>	0123456722	MDR	2023-04-01	

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"

Commented [SC35]: DIN-070

Commented [M(36)]: DIN678

Commented [S(37)]: DIN959

Commented [M(38R37)]: DIN ref should be 595

ISD Entity ID M17 - Valid /Consent Granularity Combinations

Energy Direction	Domestic Premise Indicator	Market Segment Indicator	Meter Group	Consent Granularity

Column Name	Data Type/Length	Other information
Energy Direction	1 character	Mandatory, E or I
Domestic Premise Indicator	Boolean	Mandatory. Either T or F
Market Segment Indicator	1 character	Mandatory. Either U, S or A
Meter Group	Up to 11 characters	Mandatory: Either Smart, Traditional, Advanced or Unmetered
Consent Granularity	1 characters	Mandatory. Either H, M or D or N

Example

Energy Direction	Domestic Premise 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
I	T	U	Unmetered	H
E	T	S	Smart	H
E	F	S	Smart	H
E	T	A	Advanced	H
E	F	A	Advanced	H
I	T	S	Traditional	N
E	T	S	Traditional	N
I	F	S	Traditional	N
E	F	S	Traditional	N

ISD Entity ID M18 – DIP Market Roles

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

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 {DIPROLE}	Date	Mandatory
Effective To Date {DIPROLE}	Date	Optional

Example

DIP Role	DIP Role Description	Market Participant Role Code	Effective From Date {DIPROLE}	Effective To Date {DIPROLE}
MSA	Metering Service Advanced	T	2023-01-01	
ADS	Advanced Data Service	O	2023-01-01	
MSS	Metering Service Smart	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 Supplied Operator	3	2023-01-01	
UMSDS	Unmetered Data Service	Q	2023-01-01	
MDS	Marketwide Data Service	N/A	2023-01-01	
LSS	Load Shaping Service	N/A	2023-01-01	
ISD	Industry Standing Data	N/A	2023-01-01	
VAS	Volume Allocation Service	N/A	2023-01-01	
REGS	Registration Service	P	2023-01-01	
SUP	Supplier	X	2023-01-01	
MAP	Meter Asset Provider	8	2023-01-01	
LDSO	Licenced Distribution System Operation	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	
DCP	DIP Connection Provider	N/A	2023-01-01	
SMSO	Smart Meter System Operator	5	2023-01-01	

ISD Entity ID   M19 – Settlement Period Quality Indicators

Settlement Period Quality Indicator	Actual/Estimate

Column Name	Data Type/Length	Other information
Settlement Period Quality Indicator	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

ISD Entity ID 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 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)

Example

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
NEED	111	2023-04-01	4	1.025

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

ISD Entity ID 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	4 Num	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) & SVA Market Participant 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)

Example

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
NEED	1212	2023-04-01	4	1.025

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

MS ID refers to Metering System Identifier

Change Record

Date	Author	Version	Change Detail
16/02/2023	SI Design	V5.0	Initial Version
08/06/2023	SI Design	V5.1	DIN 292
03/07/2023	SRO Design	V5.2	DIN -372 (Addition of M18) & DIN-070 (Clarification & Updates to M16) DIN454
02/08/2023	SI Design	V5.3	DIN557 and DIN588 updates throughout document from Id to ID DIN-590 Update M18 so that 'UDS' shows as 'UMSDS' DIN-595 DIN-600 Corrected Row Headings in table M18 to Read "DIP ROLE" DIN633 DIN158 Valid Settlement Period Quality Indicator Set changed to Settlement Period Quality Indicator DIN409 MSID to MS Id in entity M8 DIN633 Mandatory to Optional DIN657 Addition of M19 DIN671 updates to ISD entities M3 and 23
	SI Design	V5.4	DIN678 changes to entities M9/M10/M14 and M16 DIN716 removal of text in Entity 23 DIN500 M17 example correction DIN730 increase to character limit DIN721 rule added to entity 45
17/01/2024	SI Design	V5.5	DIN-754 added M20 and M21 DIN-795 updated M9
05/03/2024	SI Design	V5.5.1	DIN-899 updated M15 and M17
22/03/2024	SI Design	V5.6	DIN-896 added to update the contents table
11/06/2024	SI Design	V5.7	DIN-980, 1002 and 1033
13/08/2024	SI Design	V5.8	DIN-1063 and 1072

Commented [M(54]: DIN158