MPRS Validation Rules



Version: 9.0.0.2

Date: August 2025

Classification: Open

Approved by: Richard Warham

St Clements Services Ltd
4-6 Church Walk
Daventry
NN11 4BL
Tel: 01327 314600
Fax: 01327 310154
www.st-clements.co.uk

Table of Contents

1 Introduction 1
2 Attachment 1 – MPRS Business Entity Rules 2
2.1 MPRS Business Entity Rules 2
3 Attachment 2 – Data Flow Validation 37
Attachment 3 – Additional Rules 49
Key Validations for D0324 52
Advise of Green Deal Active at MPAN 52
Key Validations for Smart Data 52
Key validations for DCC Service Flag (D0350 Flow) 53
UPRN Suppression 53
Key Validations For Managing Metering Point Relationships D0386 54
PIR702 CSS Manage Metering Point relationships 55
D0386 Resolving Broken Relationships 55
D0386 Resolving Disconnected MPANs 56
Key Validations for Meter Technical Details D0312/D0304 57
Key Validations for Smart Meter Technical Details REC CP R0032 58
Key Validation for LDSO Associated Import Export MPANs 59
Faster Switching 59
Registration Transaction Number J0031 59
MHHS DSP Response Flow from CSS 59
MHHS Market Segment Calculation 60
MHHS Service Provider Appointment Revalidation 61
MHHS Service Provider Appointment Lapse Triggers 62
Updates to MTDs via IF-005 63
Invalid Notifications (IF-045) 64
PUB-025 Profile Class and SSC 64
Auto Alignment Of Service Provider Appointments 65
IF-037/IF-003 Registration ID 66
4 Attachment 4 – Rejection Reason Codes 69
4.1 D0304 Validation 74
4.2 D0312 Validation 75
4.3 D0386 Validation 78
4.4 PUB-005 Validation 80
4.4.1 All Event Codes 80
4.4.2 Event Codes [MeterInstall], [MeterExchange], [MeterUpdate], [MeterHistoryUpdate] 80
4.4.3 Event Codes [MeterRemoval], [MeterExchange], [MeterUpdate], [MeterHistoryUpdate] 81
4.4.4 Event Codes [MeterInstall], [MeterRemoval], [MeterExchange] 81
4.4.5 Event Codes [MeterInstall] and [MeterExchange] 82
4.4.6 Event Codes [MeterInstall], [MeterExchange] and [MeterUpdate] 82
4.4.7 Event Codes [MeterRemoval] and [MeterExchange] 82
4.4.8 Event Codes [MeterUpdate] and [MeterHistoryUpdate] 83
4.4.9 Event Code [MeterExchange] 83
4.4.10 Event Code [MeterUpdate] 83
4.4.11 Event Code [MeterHistoryUpdate] 84
4.5 PUB-007 Validation 84
4.6 PUB-019 Validation (Related MPANs) 85
4.6.1 All Event Codes 85

4.6.2 Event Codes [RelatedCreate] and [RelatedAdd] 85
4.6.3 Event Code [RelatedCreate] 86
4.6.4 Event Code [RelatedAdd] 86
4.6.5 Event Code [RelatedRemove] 86
4.7 DB05 Validation (LDSO Generates DB05 in Response to IF-019 Association Changes) 87
4.7.1 All Event Codes 87
4.7.2 Event Code [LinkedImportExportCreate] 87
4.7.3 Event Code [LinkedImportExportRemove] 87
4.7.4 Event Codes [LinkedImportExportAdd] and [LinkedImportExportCreate] 87
4.8 PUB-025 Validation 87
4.8.1 All Event Codes 88
4.8.2 Event Code [ConsentGranularity] 88
4.8.3 Event Code [IHDInfo] 88
4.8.4 Event Code [SMSO] 89
4.8.5 Event Code [SSCandProfileClass] 89
4.9 PUB-031 Validation 90
4.9.1 All Event Codes and Appointment Scenarios 90
4.9.2 All Event Codes and Appointment Scenarios USP, CSP, COS, SEG 90
4.9.3 All Event Codes and Appointment Scenario USP, CSP, MCA 91
4.9.4 All Event Codes and Appointment Scenario COS and MCS 91
4.9.5 All Event Codes and Appointment Scenario SEG 91
4.9.6 All Event Codes and Appointment Scenario MCA and MCS 91
4.9.7 All Event Codes and Appointment Scenario MCA 91
4.9.8 All Event Codes and Appointment Scenario MCS 92
4.9.9 Event Code [MSApp] and all Appointment Scenarios 92
4.9.10 Event Code [MSApp] and Appointment Scenario CSP, COS, SEG, MCA, MCS 92
4.9.11 Event Code [MSApp] and Appointment Scenario USP, CSP, COS, SEG 92
4.9.12 Event Code [MSApp] and Appointment Scenario COS and MCS 92
4.9.13 Event Code [MSApp] and Appointment Scenarios USP, CSP, COS, MCA, MCS 93
4.9.14 Event Code [MSApp] and Appointment Scenario USP 93
4.9.15 Event Code [MSApp] and Appointment Scenario CSP 93
4.9.16 Event Code [MSApp] and Appointment Scenario CSP/SEG 93
4.9.17 Event Code [MSApp] and Appointment Scenario SEG 94
4.9.18 Event Code [DSApp] and all Appointment Scenarios 94
4.9.19 Event Code [MSApp] and Appointment Scenario CSP, COS, SEG, MCA, MCS 95
4.9.20 Event Code [DSApp] and Appointment Scenarios USP, CSP, COS, SEG 95
4.9.21 Event Code [DSApp] and Appointment Scenarios USP, CSP, COS, MCA, MCS 95
4.9.22 Event Code [DSApp] and Appointment Scenarios USP 95
4.9.23 Event Code [DSApp] and Appointment Scenarios CSP 95
4.9.24 Event Code [DSApp] and Appointment Scenarios CSP, SEG 95
4.9.25 Event Code [DSApp] and Appointment Scenarios COS and MCS 96
4.9.26 Event Code [DSApp] and Appointment Scenarios SEG 96
4.10 PUB-034 Validation 96

4.10.1 Event Codes [MSAppSPResponse] and [DSAppSPResponse] 96
4.10.2 Event Code [MSAppSPResponse] 98
4.10.3 Event Code [DSAppSPResponse] 98
4.10.4 Event Code [DSAppSPResponse] and Response Code 'A' 98
4.10.5 Event Code [SDS-MDRUpdate] 98
4.11 PUB-038 Validation 99
4.11.1 All Event Codes 99
4.11.2 Event Code [DirectContractMSAdd] 100
4.11.3 Event Code [DirectContractMSRemove] 100
4.11.4 Event Code [DirectContractDSAdd] 100
4.11.5 Event Code [DirectContractDSRemove] 100
APPENDIX A Scenario – updating SMSO ID and EFD (Legacy MPANs Only) ... 101

Copyright statement

This document contains the confidential information of St Clements Services Ltd. All the intellectual property rights, including copyright, in this document are controlled by, and/or vest in, St Clements Services Ltd. This document may not be copied or reproduced in any form in whole or in part, nor disclosed to any other party, without the prior written consent of St Clements Services Ltd. St Clements Services Ltd does not accept any liability for the consequences of any action (or lack of action) taken by any party based on the contents of this document.

DOCUMENT CONTROL

A Document History

Version	Author(s)	Reason for Issue	Date
8.0	Madison Layton	Faster switching Added missing validation for LLFC MS Specific Type. Added additional ISC 34 message to support this.	August 2021
8.2	Daniel Tadecicco	MHHS Stage 0 BSC CP 1558, New Connection, EDI, Import Export Association REC CP R0032 D0312 Smart Data items	June 2023
8.2.1	Daniel Tadecicco	REC CP R0097 changes to D0312 validation rules	June 2023
9.0	Madison Layton	R9.0 for MHHS Go Live	August 2025
9.0.0.2	Madison Layton	Added clarification on IF-003/IF-037 Registration ID population	August 2025

B Distribution

Name	Company	Role
	LDSOs	
	RECCo	
	BSCCo	

1 INTRODUCTION

Attachment 1 is a detailed list of the MPRS rules at the Business Entity level. This list was produced during the design phase from the design documentation and is therefore fairly technical in its presentation.

Attachment 2 contains examples of the impact of the detailed rules on the defined data flows into MPRS. These are examples only and should not be taken as exhaustive.

Attachment 3 lists other rules, constraints and/or design features of which Suppliers sending data to MPRS need to be aware.

Attachment 4 lists the reasons associated with rejection reason codes.

2 ATTACHMENT 1 – MPRS BUSINESS ENTITY RULES

2.1 MPRS Business Entity Rules

These rules are defined in the MPRS Detailed System Specification Appendix B under 'Notes and Remarks' for each entity. The rules are summarised in Table 1 below.

The rules are grouped by business entity and each rule is classified as one of the following types:-

Type	Rule Classification
Attribute Rule	Rule applies to the attributes of one instance of the entity only. *For example, the Effective From Date of an Appointment must be no earlier than the Retrospective Change Period before the Entry Date of the Appointment. This is expressed in table 1 as follows:-* *EFD* >= Entry Date - Retrospective Change Period
Instance Rule	Rule applies to the attributes across multiple instances of the entity. *For example, no new REGISTRATION can be made for a METERING POINT which has an existing REGISTRATION with an outstanding objection.*
Related Entity Rule	Rule applies to the relationship between the attributes of the entity and the attributes of a related entity *For example, for a DATA AGGREGATOR APPOINTMENT, the DATA AGGREGATOR must be of the same type as the MP MEASUREMENT CLASS for the period of the appointment.*

Five 'general' rules are also identified (G1 - G5) which are applicable to many entities in a similar form. These five rules are defined as follows:-

Rule #	Type	Rule
G1	Attribute	The Effective From Date (EFD) of the period of applicability of any instance of an entity must be on or before the Effective To Date (ETD) of the period. This is expressed in table 1 as *Effective From Date (EFD) <= Effective To Date (ETD)*
G2	Instance	There must not be any overlapping periods of {EFD, ETD} in the instances of the entity which are all related to the same parent entity.
G3	Related Entity	Any period of applicability {EFD, ETD} of any instance of the entity must be contained within the applicable periods of its related parent entity.

Rule #	Type	Rule
G4	Instance	There must not be any gaps in the {EFD, ETD} periods of the instances of the entity during the applicable periods of its related parent entity.
G5	Related Entity	The start of the applicable period {EFD} of the instances of the entity must be within the {EFD, ETD} period of its related parent entity.

Table 1 Business Rules within MPRS

#	Entity	Rule #	Type	Rule
1	DATA AGGREGATOR		G1	
2			G2	for same ID and TYPE
3	DATA AGGREGATOR APPOINTMENT		G1	
4			G2	for a REGISTRATION
5			G5	associated entity = DATA AGGREGATOR
6			G3	associated entity = REGISTRATION
7		1	Related Entity	REGISTRATION must have valid data as at the *EFD* for MP ENERGISATION STATUS, MP MEASUREMENT CLASS, MP PROFILE CLASS (HH) or MP CONFIGURATION PROFILE (NHH), DC APPOINTMENT.
8		2	Related Entity	DATA AGGREGATOR must be same type as MP MEASUREMENT CLASS for the period {*EFD, ETD*}
9		3	Attribute	*EFD* <= Entry Date + Advance Change Period
10		4	Attribute	*EFD* >= Entry Date - Retrospective Change Period
11		5	Related Entity	*EFD* of a default appointment must = *EFD* of REGISTRATION
12		6	Instance	The *EFD* of a new appointment for REGISTRATION must >= *EFD* of latest appointment.
13		7	Related Entity	Specified MPAN must not be at MHHS Status of ‘MHHS New Connection’, ‘MHHS Migrated’ or ‘Pending MHHS’
14	DATA COLLECTOR		G1	
15			G2	for same ID and TYPE
16	DATA COLLECTOR APPOINTMENT		G1	
17			G2	for a REGISTRATION
18			G5	associated entity = DATA COLLECTOR

#	Entity	Rule #	Type	Rule
19			G3	associated entity = REGISTRATION
20		1	Related Entity	DATA COLLECTOR must be same type as MP MEASUREMENT CLASS for the period {*EFD, ETD*}
21		2	Attribute	*EFD* <= Entry Date + Advance Change Period
22		3	Attribute	*EFD* >= Entry Date - Retrospective Change Period
23		4	Related Entity	*EFD* of a default appointment must = *EFD* of REGISTRATION
24		5	Instance	The *EFD* of a new appointment for REGISTRATION must >= *EFD* of latest appointment.
25		6	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
26	DATA SERVICE		G1	
27			G2	For same MPID and DIP ID
28	GSP GROUP		G1	
29		1	Related Entity	*ETD* >= *ETD* of any related MP GSP GROUP
30	IN HOME DISPLAY INSTALL STATUS	1	Attribute	Must be I, D, E or F. (This represents Installed, Declined, Existing or Failed)
31	DUOS TARIFF ID		G1	
32		1	Related Entity	*ETD* >= *ETD* of any related MP DUoS Tariff Id
33		2	Attribute	Must not begin with '0', contain lower case letters, special characters, or contain letters 'I' or 'O'
34	MEASUREMENT CLASS		G1	
35		1	Related Entity	*ETD* >= *ETD* of any associated MP MEASUREMENT CLASS
36	METER ASSET PROVIDERS		G1	
37			G2	for same ID
38	METER DATA RETRIEVER		G1	
39			G2	For same MPID and DIP ID

#	Entity	Rule #	Type	Rule
40	METER OPERATOR		G1	
41			G2	for same ID and TYPE
42	METER OPERATOR APPOINTMENT		G1	
43			G2	for a REGISTRATION
44			G5	associated entity = METER OPERATOR
45			G3	associated entity = REGISTRATION
46		1	Related Entity	METER OPERATOR must be same type as MP MEASUREMENT CLASS for the period {*EFD, ETD*} and specifically: METER OPERATOR must be a MOp with MP MEASUREMENT CLASSES A, C, E, F and G. METER OPERATOR must be an UMSO with MP MEASUREMENT CLASS B METER OPERATOR must be an MA with MP MEASUREMENT CLASS D
47		2	Attribute	*EFD* <= Entry Date + Advance Change Period
48		3	Attribute	*EFD* >= Entry Date - Retrospective Change Period
49		4	Related Entity	*EFD* of a default appointment must = *EFD* of REGISTRATION
50		5	Instance	The *EFD* of a new appointment for REGISTRATION must >= *EFD* of latest appointment.
51		6	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
52	METER/TIMESWITCH CLASS		G1	
53		1	Related Entity	*ETD* >= *ETD* of any related METERING POINT METER/TIMESWITCH CLASS
54	METERING POINT	1	Attribute	No changes are allowed of a 'disconnected' METERING POINT if the effective from date is after the date of disconnection.
55		2	Related Entity	When a METERING POINT is created, a METERING POINT STATUS of 'new' is also created.
56		3	Attribute	At least one Address line OR the Post Code must be present

#	Entity	Rule #	Type	Rule
57		4	Related Entity	When a METERING POINT is created, a METERING POINT ENERGISATION STATUS of 'D' is also created.
58	METERING POINT LINKED IMPORT EXPORT ASSOCIATION	1	G1	
59		2	G2	
60		3	Attribute	EFD <= MPRS System Date
61		4	Related Entity	EFD must be >= MP Status N (RMP Status Created) EFD
62		5	Attribute	ETD must not be specified for Event Code [LinkedImportExportCreate] or [LinkedImportExportAdd]
63		6	Attribute	ETD must be specified for Event Code [LinkedImportExportRemove]
64		7	Attribute	ETD <= MPRS System Date
65		8	Related Entity	Association cannot be created, amended or deleted when the current MPAN MHHS Migration Status is 'Pending Legacy' or 'Pending MHHS'.
66	METERING POINT ASSOCIATED EXPORT MPAN	1	Attribute	Must be a valid MPAN Core
67		2	Related Entity	Must have a Metering Point Energy Direction of Export
68		3	Related Entity	Must not have an MP Status of Disconnected (RMP Status Terminated)
69		4	Related Entity	Must not be Associated with another Import MPAN
70		5	Related Entity	Must not have a Connection Type of 'U'
71		6	Related Entity	Must not have a Pending Registration (either initial of CoS)
72	METERING POINT ASSOCIATED IMPORT MPAN	1	Attribute	Must be a valid MPAN Core
73		2	Related Entity	Must have a Metering Point Energy Direction of Import
74		3	Related Entity	Must not have an MP Status of Disconnected (RMP Status Terminated)

#	Entity	Rule #	Type	Rule
75		4	Related Entity	Must not be Associated with another Import MPAN
76		5	Related Entity	Must not have a Connection Type of 'U'
77		6	Related Entity	Must not have a Pending Registration (either initial of CoS)
78	METERING POINT CONNECTION TYPE		G1	
79			G2	Associated entity = METERING POINT
80			G4	Associated entity = METERING POINT
81		1	Attribute	Must be a valid value, i.e. one of the following: 'W Whole Current' 'L' Low Voltage Current Transformer 'H' High Voltage Current Transformer 'E' Extreme High Voltage Current Transformer 'U' Unmetered
82		2	Instance	The number of Connection Type Indicator changes must not exceed the maximum allowed
83		3	Related Entity	EFD must be >= MP Status N (RMP Status Created) EFD
84		4	Attribute	EFD <= Entry Date
85		5	Related Entity	MPAN must not be a Secondary MPAN in any active MPAN relationship
86		6	Related Entity	MPAN must not be an Export MPAN in any active import / export association
87		7	Instance	Cannot amend Connection Type from 'U'
88		8	Related Entity	MPAN must have no active MPAN relationship for Connection Type 'U'
89		9	Related Entity	MPAN must have no active MPAN association for Connection Type 'U'
90		10	Related Entity	Connection Type EFD must not be prior to the active registration SSD
91		11	Related Entity	Connection Type EFD must not be prior to the MPAN MHHS Migration Date

#	Entity	Rule #	Type	Rule
92		12	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Connection Type EFD
93		13	Related Entity	Connection Type must not be changed when the current MPAN MHHS Migration Status is 'Pending Legacy' or 'Pending MHHS'
94	METERING POINT CONSENT GRANULARITY		G1	
95			G2	For a METERING POINT
96			G5	For a REGISTRATION
97		1	Attribute	Consent Granularity must be valid, i.e. one of 'H', 'D', 'M', 'N'
98		2	Related Entity	Must be a valid combination with Domestic Indicator, MPAN Energy Direction Indicator, Market Segment and Meter Category as defined in ISD
99		3	Attribute	[PUB-025] EFD <= Entry Date + MHHS ADVANCED CHANGE DAYS
100		4	Attribute	[PUB-025] EFD >= Entry Date - MHHS RETROSPECTIVE CHANGE DAYS
101		5	Instance	The EFD if a new Consent Granularity must be greater than the EFD of the latest Consent Granularity for the Metering Point
102		6	Related Entity	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
103		7	Related Entity	Specified MPAN must not be disconnected
104	METERING POINT CUSTOMER DIRECT CONTRACT		G1	
105			G2	For a METERING POINT
106			G5	[MS] For a METERING SERVICE
107			G5	[DS] For a DATA SERVICE
108		1	Related Entity	Specified MPAN must be at RMP Status of Created or Operational
109		2	Attribute	Customer Direct Contract End Date must be in the future

#	Entity	Rule #	Type	Rule
110		3	Attribute	Customer Direct Contract End Date must not extend beyond 'DIRECT CUSTOMER CONTRACT MAX FUTURE ETD' TP in the future
111		4	Related Entity	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
112	METERING POINT DCC SERVICE FLAG		G1	
113			G2	For a METERING POINT
114		1	Related Entity	For a 'disconnected' METERING POINT, the *EFD* <= date of disconnection
115		2	Instance	New EFD >= EFD of latest for METERING POINT
116		3	Attribute	EFD must not be future dated
117		4	Attribute	DCC Service Flag must be one of 'A' (Active), 'I' (Installed not Commissioned) or 'N' (Not Active)
118	METERING POINT DOMESTIC PREMISE INDICATOR		G1	
119			G2	Associated entity = REGISTRATION
120			G3	Associated entity = REGISTRAITON
121			G4	Associated entity = REGISTRAITON
122		1	Attribute	Must be true or false
123		2	Instance	The *EFD* of a new domestic premise indicator for REGISTRATION must >= *EFD* of latest domestic premise indicator
124	METERING POINT ENERGY DIRECTION		G1	
125			G2	For a METERING POINT
126			G4	For a METERING POINT

#	Entity	Rule #	Type	Rule
127		1	Attribute	Must contain a value of either: I = “Import” E= “Export”
128		2	Instance	The number of Energy Direction changes must not exceed the maximum allowed
129		3	Related Entity	Specified Energy Direction must match the MS Specific LLF Class Indicator Energy Direction assigned to the currently effective DUoS Tariff ID as defined in MDD/ISD
130		4	Related Entity	The specified Energy Direction cannot be Export if the MPAN is in an active relationship as the Primary or Secondary MPAN
131		5	Related Entity	Cannot be changed where the specified MPAN is currently part of an Import/Export Association
132	METERING POINT ENERGISATION STATUS (Registration level for Legacy MPANs)		G1	
133			G2	for a REGISTRATION
134			G3	associated entity = DATA COLLECTOR APPOINTMENT
135			G3	associated entity = DATA AGGREGATOR APPOINTMENT
136			G3	associated entity = METER OPERATOR APPOINTMENT
137		1	Related Entity	Energisation Status can only be set if, on the *EFD,* DuoS Tarrif Id, TS CODE, MEASUREMENT CLASS, and PROFILE CLASS/MP CONFIGURATION PROFILE CLASS are defined.
138		2	Related Entity	Status must be ‘de-energised’ when MP is ‘disconnected’
139		3	Attribute	*EFD* <= Entry Date + Advance Change Period
140		4	Attribute	*EFD* >= Entry Date - Retrospective Change Period
141		5	Related Entity	*EFD* of a default status must = *EFD* of REGISTRATION
142		6	Instance	The *EFD* of a new status for REGISTRATION must >= *EFD* of latest status

#	Entity	Rule #	Type	Rule
143		7	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
144	METERING POINT GSP GROUP		G1	
145			G2	for a METERING POINT
146			G4	for a METERING POINT
147		1	Related Entity	If METERING POINT is disconnected, *EFD* < disconnection date
148		2	Attribute	EFD >= Entry Date – Retrospective Change Period
149		3	Attribute	EFD <= Entry Date + Advance Change Period
150		4	Instance	New *EFD* >= *EFD* of latest for METERING POINT
151		5	Related Entity	GSP EFD cannot be prior to the active registration SSD
152		6	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed GSP Group EFD
153	METERING POINT DUoS Tariff ID		G1	
154			G2	for METERING POINT
155			G4	for METERING POINT at status 'traded'
156			G5	for DUoS Tariff ID
157		1	Related Entity	For a 'disconnected' METERING POINT, the *EFD* <= date of disconnection
158		2	Attribute	*EFD* >= Entry Date - Retrospective Change Period
159		3	Attribute	EFD <= Entry Date
160		4	Instance	New *EFD* >= *EFD* of latest for METERING POINT
161		5	Related Entity	[Legacy MPANs only] For a DUoS Tariff Id with a Site Specific LLF Type (J0775 B or D), the MEASUREMENT CLASS TYPE must be HH
162		6	Related Entity	DUoS Tariff Identifier EFD must not be prior to the MPAN MHHS Migration Date

#	Entity	Rule #	Type	Rule
163		7	Attribute	When the MPSR System Date has reached the date specified by the 'check_duos_within_final_reconciliation_date' system variable, MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed DUoS Tariff Identifier EFD
164		8	Related Entity	Specified Energy Direction must match the MS Specific LLF Class Initiator Energy Direction assigned to the proposed Line Loss Factor Class/DUoS Tariff ID as defined in MDD/ISD
165	METERING POINT MEASUREMENT CLASS		G1	
166			G2	for a REGISTRATION
167			G4	for METERING POINT at status 'traded'
168		1	Related Entity	For a 'disconnected' METERING POINT, the *EFD* <= date of disconnection
169		2	Related Entity	The TYPE of the MEASUREMENT CLASS must be the same as any DA APPOINTMENT, DC APPOINTMENT, METER OPERATOR APPOINTMENT or PROFILE CLASS or an MP CONFIGURATION PROFILE on the *EFD* and additionally: METER OPERATOR must be a MOp with MP MEASUREMENT CLASSES A, C, E, F and G. METER OPERATOR must be an UMSO with MP MEASUREMENT CLASS B METER OPERATOR must be an MA with MP MEASUREMENT CLASS D
170		3	Attribute	*EFD* <= Entry Date + Advance Change Period
171		4	Attribute	*EFD* >= Entry Date - Retrospective Change Period
172		5	Related Entity	*EFD* of a default class must = *EFD* of REGISTRATION
173		6	Instance	The *EFD* of a new class for REGISTRATION must >= *EFD* of latest class
174		7	Related Entity	The TYPE of MEASUREMENT CLASS must be HH if the DUoS Tariff Id is Site Specific (J0775 B or D)
175		8	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
176	METERING POINT MARKET SEGMENT		G1	

#	Entity	Rule #	Type	Rule
177			G2	For a METERING POINT
178			G4	For a METERING POINT (after MHHS Go Live)
179		1	Attribute	Must be a valid value i.e. ‘A’, ‘S’ or ‘U’
180		2	Related Entity	Where Connection Type is W, Market Segment must be ‘S’ or ‘A’ Where Connection Type is E, H or L, Market Segment must be ‘A’ Where Connection Type is U, Market Segment must be ‘U’
181		3	Related Entity	If metered indicator is false, Market Segment must be ‘U’ If metered indicator is true, Market Segment must not be ‘U’
182		4	Related Entity	EFD must not be prior to the active registration SSD
183		5	Related Entity	[MHHS] EFD must not be prior to the MPAN’s MHHS Forward Migration Date
184		6	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Market Segment EFD
185	METERING POINT METER ASSET PROVIDERS		G1	
186			G2	For a Meter
187			G3	For a Meter
188			G5	associated entity = METER ASSET PROVIDER
189		1	Related Entity	[Legacy] For a ‘disconnected’ METERING POINT, the EFD <= date of disconnection
190		2	Attribute	EFD {MAPA} <= Entry Date
191		3	Attribute	[Legacy] Current METER OPERATOR - the sender METER OPERATOR must match the latest METER OPERATOR APPOINTMENT or Previous METER OPERATOR - the sender METER OPERATOR must match the previous METER OPERATOR and the ETD of the METER OPERATOR must be on or after the Effective From Date {MAPA}

#	Entity	Rule #	Type	Rule
192		4	Attribute	Meter ID must be associated with specified MPAN Core
193		5	Attribute	[Legacy] A METER OPERATOR is assigned to the MPAN Core as at the Effective from Date {MAPA}
194		6	Attribute	Effective from Date {MAPA} must be >= existing Effective from Date {MAPA}
195		7	Attribute	[MHHS] for event code [MeterHistoryUpdate] historyMAP must be specified when installing a new meter
196		8	Attribute	[MHHS] Only 1 MAP history record can be updated in a single message
197		9	Attribute	[MHHS] for [MeterInstall] or [MeterExchange] meterAssetProviderEffectiveFromDate must be = meterInstallationDate
198		10	Attribute	[MHHS] for [MeterHistoryUpdate] when installing a new meter meterAssetProviderEffectiveFromDate must be = meterInstallationDate
199		11	Related Entity	[MHHS] Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
200		12	Related Entity	[Legacy] Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
201		13	Attribute	[MHHS] For event codes [MeterInstall], [MeterRemoval] and [MeterExchange] senderDIPID must be either: 1. Currently appointed Metering Service, or 2. Prospective Metering Service (Status 'Pending') with Appointment Scenario 'SEG', or 3. A previous Metering Service where the MPRS System Date <= ETD + 'MHHS END DATED MS MTD UPDATE DAYS' TP) and the MPAN is not De-registered 4. The previous Metering Service where the MPAN is De-registered
202		14	Attribute	[MHHS] For event codes [MeterUpdate] and [MeterHistoryUpdate] senderDIPID must be the currently appointed Metering Service
203		15	Related Entity	Specified MPAN must be at RMP Status of Created or Operational

#	Entity	Rule #	Type	Rule
204	METERING POINT METER DATA RETRIEVAL AGENT		G1	
205			G2	For Data Service
206			G3	For Data Service
207			G5	For Meter Data Retriever
208		1	Attribute	MDR MPID must resolve to the same MPID as that held on the Meter Data Retriever data for the defined DIP ID
209		2	Related Entity	Specified MPAN must be at RMP Status of Created or Operational
210		3	Related Entity	EFD must be >= proposed DS EFD
211		4	Instance	EFD must be >= existing MDR EFD for the same Data Service Appointment
212		5	Attribute	For Event Code [DSAppSPResponse] EFD must not be greater than system date + <ADVANCE MDR APPOINTMENT CALENDAR DAYS> Trading Parameter
213		6	Attribute	For Event Code [SDS-MDRUpdate] EFD must not be more than system date + <SDS ADVANCE MDR APPOINTMENT CALENDAR DAYS> Trading Parameter into the future
214		7	Attribute	For Event Code [SDS-MDRUpdate] submitting Data Service must be the currently appointed Data Service with status of Confirmed
215		8	Attribute	For Event Code [SDS-MDRUpdate] serviceProviderAppointmentRequestingSupplierDIPID must be the current Supplier
216		9	Attribute	For Event Code [SDS-MDRUpdate] serviceProviderAppointmentRequestingSupplierMPID must be the current Supplier
217		10	Attribute	For Event Code [SDS-MDRUpdate] CSSRegistrationID must be for the currently active registration
218		11	Instance	For [SDS-MDRUpdate] the proposed MDR appointment must not be the currently appointed MDR (If the current appointment has a DSP MDR Response Status = 'Failed' re-submitting the same MDR is valid, but only with the same EFD)
219		12	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed MDR EFD
220	METERING POINT METERS		G1	

#	Entity	Rule #	Type	Rule
221			G3	associated entity = METERING POINT
222		1	Related Entity	[Legacy] For a 'disconnected' METERING POINT, the Date of Meter Installation <= date of disconnection THIS APPLIES TO 12D ROWS ONLY – Meter Removals after the Disconnection Date are allowed.
223			Related Entity	[MHHS] For a 'disconnected' METERING POINT only Meter Removals are permitted
224		3	Attribute	Date of Meter Installation <= Entry Date
225		4	Related Entity	[Legacy] There must be a METER OPERATOR to have a meter. There must be a REGISTRATION to have a METER OPERATOR
226		5	Attribute	Meter Type must exist in the valid list (J0483)
227		6	Attribute	[Legacy] The previous METER OPERATOR can only alter meters within their METER OPERATOR appointment period. The Meter Install Date must be equal to or greater than the METER OPERATOR EFD but not later than the METER OPERATOR ETD or The sender METER OPERATOR MPID must match the previous METER OPERATOR and the ETD {MOPA} of the METER OPERATOR must be on or after the Install Date
228		7	Attribute	[Legacy] METER ID (serial number) must not exist in both 12D and 13D groups
229		8	Attribute	Date of Meter Removal >= Date of Meter Installation for the same Meter
230		9	Attribute	[Legacy] METER ID (serial number) must be unique within the 12D group
231		10	Attribute	[Legacy] METER ID (serial number) must be unique within the 13D group
232		11	Attribute	Date of Meter Removal <= entry date

#	Entity	Rule #	Type	Rule
233		12	Attribute	[Legacy] Current METER OPERATOR - When no 12D row is provided (i.e. All meters to be removed) the sender METER OPERATOR must match the current METER OPERATOR APPOINTMENT or Previous METER OPERATOR - the sender METER OPERATOR must match the previous METER OPERATOR and the ETD {MOPA} of the METER OPERATOR APPOINTMENT must be on or after the Date of Meter Removal
234		13	Attribute	Meter Location must be a Valid value as defined in DTC J0419
235		14	Related Entity	[Legacy] Meter Location must be specified for Smart Meter Types (Prefixed with S1, S2 or 2)
236		15	Related Entity	[Legacy] Meter Location must not be included for Traditional and Advanced Meter Types
237		16	Attribute	[MHHS] Meter Location is mandatory for all meter types
238		17	Attribute	ESME ID must be specified as XX-XX-XX-XX-XX-XX-XX-XX (0-9, A-Z)
239		18	Instance	ESME ID must be unique for Active (installed) meters in MPRS (unless assigned to an associated or related MPAN, which is valid)
240		19	Related Entity	ESME ID must be specified for Smart Meter Types (Prefixed with S1, S2 or 2)
241		20	Related Entity	ESME ID must not be specified for Traditional and Advanced
242		21	Attribute	Where the Meter Type is S1 the Number of Displayed Register Digits value must be in the range from 0-9 Where the Meter Type is S2A, S2AD, S2ADE, 2ADF, 2ADEF, 2AEF, 2AF, S2B, S2BD, S2BDE, 2BF,2BDF, 2BDEF or 2BEF the value must be “5”. Where the Meter Type is prefixed with “S2C” the value must be “6”. Where the Meter Type is 2CDEF, 2CF, 2CDF or 2CEF the value must be “6”
243		22	Related Entity	Number of Displayed Register Digits must be specified for Smart Meter Types (Prefixed with S1, S2 or 2)
244		23	Related Entity	Number of Displayed Register Digits must not be specified for Traditional and Advanced

#	Entity	Rule #	Type	Rule
245		24	Attribute	When removing a meter, METER ID (Serial Number) must already be associated with the MPAN
246		25	Related Entity	[MHHS] For event codes [MeterInstall], [MeterRemoval] and [MeterExchange] senderDIPID must be either: 1. Currently appointed Metering Service, or 2. Prospective Metering Service (Status 'Pending') with Appointment Scenario 'SEG', or 3. A previous Metering Service where the MPRS System Date <= ETD + 'MHHS END DATED MS MTD UPDATE DAYS' TP) and the MPAN is not De-registered 4. The previous Metering Service where the MPAN is De-registered
247		26	Related Entity	[MHHS] For event code [MeterUpdate] senderDIPID must be either: 1. Currently appointed Metering Service, or 2. A previous Metering Service where the ETD is >= (MPRS System Date - 'MHHS END DATED MS MTD UPDATE DAYS' TP) and the MPAN is not De-registered
248		27	Related Entity	[MHHS] For event code [MeterUpdate] previous Metering Service can only update Meter Location
249		28	Related Entity	[MHHS] For event code [MeterHistoryUpdate] senderDIPID must be the currently appointed Metering Service
250		29	Attribute	Meter ID must be unique within MPAN Core
251		30	Instance	[MHHS] if populated modifiedMeterID must be unique and not = an existing installed Meter (for the MPAN)
252		31	Instance	[MHHS] For event code [MeterUpdate] Meter ID must exist in MPRS, as an installed meter
253		32	Instance	[MHHS] for event code [MeterHistoryUpdate] Meter ID must not exist in MPRS, as an installed meter NOTE: If active installed meter use [MeterUpdate]
254		33	Attribute	[MHHS] for Events codes [MeterInstall] and [MeterExchange] modifiedMeterID must not be specified
255		34	Attribute	[MHHS] for Event Code [MeterHistoryUpdate] modifiedMeterID must not be specified when installing a new Meter

#	Entity	Rule #	Type	Rule
256		35	Related Entity	[MHHS] for event codes [MeterInstall] and [MeterExchange] meterInstallationDate must fall within the sending Metering Service appointment period (or proposed appointment period for 'SEG' scenario)
257		36	Attribute	[MHHS] for event codes [MeterUpdate] and [MeterHistoryUpdate] meterInstallationDate must be = existing Meter Installation Date when modifiedMeterID is specified
258		37	Related Entity	[MHHS] for event code [MeterHistoryUpdate] when meterID does not exist for the MPAN (as either installed or Removed) meterInstallationDate must be prior to submitting Metering Service EFD. NOTE: If installing within period of ownership use [MeterInstall] event code
259		38	Attribute	[MHHS] for event code [MeterUpdate] and [MeterHistoryUpdate] B039 (removal block) must not be included if modifiedMeterID is not null
260		39	Instance	[MHHS] for event code [MeterRemoval] and [MeterExchange] meterIDRemoved must currently be installed against the MPAN
261		40	Attribute	[MHHS] for [MeterUpdate] or [MeterHistoryUpdate] if B039 block included then meterIDRemoved must match B906.existingMeter.meterID
262		41	Attribute	[MHHS] for [MeterUpdate] if B039 (removal block) specified, the removal date must be specified
263		42	Related Entity	[MHHS] for [MeterUpdate] if B039 specified, the removal date must be < submitting Metering Service EFD NOTE: to remove a meter within period of ownership use [MeterRemoval] event code.
264		43	Attribute	[MHHS] for [MeterRemoval] and [MeterExchange] the removal date must be specified
265		44	Related Entity	[MHHS] for [MeterRemoval] and [MeterExchange] the meter removal date must fall within the sending Metering Service appointment period (or proposed appointment period for 'SEG' scenario)
266		45	Attribute	[MHHS] for [MeterExchange] meterInstallationDate of new meter must be >= meterRemovalDate of removed meter
267		46	Related Entity	[MHHS] Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'

#	Entity	Rule #	Type	Rule
268		47	Related Entity	[Legacy] Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
269		48	Related Entity	Meter Location must not be reverted to Not Known ('F') from another existing value, when the 'allow_not_known_meter_location' system variable is set to 'NO'
270	METERING POINT METERED INDICATOR		G1	
271			G2	for a REGISTRATION
272		1	Related Entity	For a 'disconnected' METERING POINT, the EFFECTIVE FROM DATE <= date of disconnection
273		2	Instance	Can only be changed once and only from True (T) to False (F)
274		3	Related Entity	MPAN must not be a Secondary MPAN in any active MPAN relationship
275		4	Related Entity	MPAN must not be an Export MPAN in any active import / export association
276		5	Attribute	EFD must NOT be greater than the MPRS System Date
277	METERING POINT METER/TIMESWITCH CLASS		G1	
278			G2	for a REGISTRATION
279			G4	for METERING POINT at status 'traded'
280			G5	for a MTC/SSC COMBINATION where MP CONFIGURATION PROFILE exists
281		1	Related Entity	For a 'disconnected' METERING POINT, the *EFD* <= date of disconnection
282		2	Attribute	*EFD* <= Entry Date + Advance Change Period
283		3	Attribute	*EFD* >= Entry Date - Retrospective Change Period
284		4	Related Entity	*EFD* of a default class must = *EFD* of REGISTRATION
285		5	Instance	The *EFD* of a new class for REGISTRATION must >= *EFD* of latest class

#	Entity	Rule #	Type	Rule
286		6	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
287	METERING POINT MPAN ENERGISATION STATUS (MPAN level for MHHS MPANs)		G1	
288			G2	for a METERING POINT
289			G5	for submitting METERING SERVICE
290		1	Attribute	*EFD* <= Entry Date
291		2	Attribute	Energisations Status is set to De-Energised on Creation of a new MHHS Operational MPAN
292		3	Attribute	Energisation Status is automatically de-energised when the MPAN is de-registered
293		4	Attribute	Energisation Status must be one of 'E' or 'D'
294		5	Related Entity	Submitting MS must be the current Metering Service or must have held an appointment on the Energisation Status EFD.
295		6	Related Entity	Where the Metering Service is the previous Metering Service, the MPRS System Date must not be greater than (MS ETD + 'SP APPOINTMENT UPDATE DAYS' Trading Parameter).
296		7	Related Entity	When the proposed Energisation Status is E the specified MPAN must be at status of Operational / Traded
297		8	Related Entity	When the proposed Energisation Status is D MPAN must be at status of Operational / Traded or Disconnected / Terminated
298		9	Instance	EFD must be >= current Energisation Status EFD held
299		10	Related Entity	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
300		11	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Energisation Status EFD
301	METERING POINT PRIMARY RELATIONSHIP		G1	
302			G2	associated entity = REGISTRATION

#	Entity	Rule #	Type	Rule
303			G3	associated entity = MP SECONDARY RELATIONSHIP
304		1	Attribute	When the RELATIONSHIP ACTION is ‘C’ (CREATE) or ‘A’ (AMEND) or the Event Code is [RelatedCreate] or [RelatedAdd] the METERING POINT must not be disconnected
305		2	Attribute	Sending SUPPLIER must be the current SUPPLIER for the PRIMARY MPAN
306		3	Attribute	PRIMARY MPAN must not be in an existing relationship when RELATIONSHIP ACTION is ‘C’ (CREATE) or Event Code is [RelatedCreate]
307		4	Attribute	PRIMARY MPAN must be in a relationship as a Primary MPAN when RELATIONSHIP ACTION is ‘A’ (AMEND) or ‘D’ DELETE or Event Code is [RelatedAdd] or [RelatedRemove]
308		5	Attribute	[Legacy] RELATIONSHIP ACTION must be a ‘C’ (CREATE), ‘A’ (AMEND) or ‘D’ (DELETE)
309		6	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘D’ (DELETE) all active SECONDARY MPANs held in MPRS must be specified.
310		7	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘A’ (AMEND) all active SECONDARY MPANs held in MPRS must be specified.
311		8	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘C’ (CREATE) at least 1 19M Group record must be specified
312		9	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘A’ (AMEND) ALL specified MPAN Actions must not be ‘D’ (Delete)
313		10	Attribute	[Legacy] When the MPAN Action is ‘A’ (ADD) or ‘C’ (CONTINUE) the MPAN Core must not be disconnected
314		11	Attribute	The specified PRIMARY and SECONDARY MPAN cannot be the same
315		12	Attribute	[Legacy] A SECONDARY MPAN must be related to the PRIMARY MPAN when RELATIONSHIP ACTION is ‘A’ (AMEND) or ‘D’ (DELETE), unless the MPAN ACTION = ‘A’ (ADD).
316		13	Related Entity	[Legacy] When the RELATIONSHIP ACTION is ‘C’ (CREATE) or ‘A’ (AMEND) the source SUPPLIER must be the current SUPPLIER for the SECONDARY MPAN OR the current SUPPLIER for the PRIMARY MPAN
317		14	Attribute	[Legacy] The MPAN ACTION must be ‘C’ (CONTINUE), ‘A’ (ADD) or ‘D’ (DELETE)

#	Entity	Rule #	Type	Rule
318		15	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘C’ (CREATE) MPAN Action must be ‘A’ (ADD)
319		16	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘D’ (DELETE) MPAN Action must be ‘D’ (Delete)
320		17	Related Entity	There must not be a registration request with a Registration Status = ‘Pending’ or a Supply Start Date > MPRS System Date for the Primary MPAN
321		18	Related Entity	[MHHS] For Event Codes [RelatedAdd] and [RelatedCreate] Primary MPAN must have an Energy Direction of Import
322		19	Related Entity	[MHHS] For Event Codes [RelatedAdd] and [RelatedCreated] Primary MPAN must not have a Connection Type of U (Unmetered).
323		20	Related Entity	[Legacy] Primary MPAN must not be at MHHS Status of ‘MHHS New Connection’, ‘MHHS Migrated’,‘Pending MHHS’ or ‘Pending Legacy’
324		21	Related Entity	[MHHS] Primary MPAN must have a MHHS Status of ‘MHHS New Connection’ or ‘MHHS Migrated’
325	METERING POINT SECONDARY RELATIONSHIP		G1	
326			G2	associated entity = REGISTRATION
327			G3	associated entity = MP PRIMARY RELATIONSHIP
328		1	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘D’ (DELETE) all active SECONDARY MPANs held in MPRS must be specified.
329		2	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘A’ (AMEND) all active SECONDARY MPANs held in MPRS must be specified.
330		3	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘C’ (CREATE) at least 1 19M Group record must be specified
331		4	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘A’ (AMEND) ALL specified MPAN Actions must not be ‘D’ (Delete)
332		5	Attribute	When the MPAN Action is ‘A’ (ADD) or ‘C’ (CONTINUE) or the Event Code is [RelatedCreate] or [RelatedAdd] the MPAN Core must not be disconnected

#	Entity	Rule #	Type	Rule
333		6	Attribute	When the MPAN Action is ‘A’ (ADD) or the Event Code is [RelatedCreate] or [RelatedAdd] the SECONDARY MPAN must not be in another relationship.
334		7	Attribute	[Legacy] FOR a SECONDARY MPAN the 19M rows within a ‘18M’ instruction can only have 1 occurrence of any MPAN Core specified
335		8	Attribute	The PRIMARY and SECONDARY MPAN cannot be the same
336		9	Attribute	A SECONDARY MPAN must be related to the PRIMARY MPAN when RELATIONSHIP ACTION is ‘A’ (AMEND) or ‘D’ (DELETE)), or where the Event Code is [RelatedRemove]
337		10	Attribute	[Legacy] When the RELATIONSHIP ACTION is ‘C’ (CREATE) or ‘A’ (AMEND) the source SUPPLIER must be the current SUPPLIER for the Secondary MPAN OR the current SUPPLIER for the PRIMARY MPAN
338		11	Attribute	[Legacy] The MPAN ACTION must be ‘C’ (CONTINUE), ‘A’ (ADD) or ‘D’ (DELETE)
339		12	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘C’ (CREATE) MPAN ACTION must be ‘A’ (ADD)
340		13	Attribute	[Legacy] When RELATIONSHIP ACTION is ‘D’ (DELETE) MPAN ACTION must be ‘D’ (DELETE)
341		14	Related Entity	There must not be a registration request with a Registration Status = ‘Pending’ or a Supply Start Date > MPRS System Date for the Secondary MPAN
342		15	Instance	[MHHS] Secondary MPAN cannot be repeated within the same message
343		16	Related Entity	[MHHS] For Event Codes [Related Add] and [RelatedCreate] Secondary MPAN must have an Energy Direction of Import
344		17	Instance	[MHHS] When event code is [RelatedAdd] Secondary MPAN must not already be related to the proposed Primary MPAN.
345		18	Related Entity	[MHHS] For Event Codes [RelatedAdd] and [RelatedCreated] Secondary MPAN must not have a Connection Type of U (Unmetered).
346		19	Related Entity	[MHHS] Submitting SUPPLIER must be the current SUPPLIER for the Secondary MPAN
347		20	Related Entity	[MHHS] Primary MPAN must have a MHHS Status of ‘MHHS New Connection’ or ‘MHHS Migrated’
348		21	Related Entity	[Legacy] Secondary MPAN must not be at MHHS Status of ‘MHHS New Connection’, ‘MHHS Migrated’,‘Pending MHHS’ or ‘Pending Legacy’

#	Entity	Rule #	Type	Rule
349	METERING POINT SERVICE PROVIDER		G1	
350			G2	For a REGISTRATION
351			G3	For a REGISTRATION
352			G5	[MS] For a METERING SERVICE
353			G5	[DS] For a DATA SERVICE
354		1	Attribute	Contract Reference must not exceed more than 50 characters
355		2	Attribute	Appointment Scenario must be one of ‘CSP’, ‘COS’, ‘SEG’, ‘USP’, ‘MCA’, ‘MCS’
356		3	Attribute	[DS] Traditional Fall-Back Frequency must be valid, i.e. one of ‘W’, ‘F’, ‘M’, ‘Q’, ‘S’, ‘A’ or null
357		4	Related Entity	Specified MPAN must be at RMP Status of Created or Operational
358		5	Related Entity	Specified MPAN must not be an active Secondary MPAN in a relationship
359		6	Related Entity	[MS] For appointment scenarios COS, CSP, SEG and USP, specified MPAN must not be an active Export MPAN in an Import/Export Association
360		7	Related Entity	[DS] For appointment scenarios COS, CSP, SEG and USP, specified MPAN must not be an active Export MPAN in an Import/Export Association, unless the MPANs Market Segment is ‘S’
361		8	Attribute	CSSRegistrationID must be a valid value for the specified MPAN
362		9	Attribute	CSSRegistrationID must be a valid value for the Submitting Supplier (S1.senderDIPID)
363		10	Attribute	[MS] When Connection Type is Unmetered the proposed MS MPID must = LDSO MPID
364		11	Attribute	Effective From Date must not be greater than MPRS System Date + ‘ADVANCE SP APPOINTMENT CALENDAR DAYS’ Trading Parameter
365		12	Attribute	[MS] MS MPID must resolve to the same MPID as that held on the Metering Service data for the defined DIP ID
366		13	Attribute	[DS] DS MPID must resolve to the same MPID as that held on the Data Service data for the defined DIP ID

#	Entity	Rule #	Type	Rule
367		14	Related Entity	For appointment scenarios ‘COS’, ‘CSP’, ‘USP’, ‘MCA’ and ‘MCS’, the current Market Segment of the MPAN must match the Market Segment of the proposed Service Provider
368		15	Attribute	For appointment scenario ‘USP’, ‘CSP’, ‘MCA’ the submitting Supplier must be the currently appointed Supplier
369		16	Attribute	For appointment scenario ‘USP’, ‘CSP’, ‘MCA’ the Registration ID must relate to the currently appointed Supplier
370		17	Instance	[MS] For appointment scenario ‘USP’ the referenced Metering Service Provider must match the current Metering Service Provider for the current Registration
371		18	Instance	[MS] For appointment scenario ‘USP’ the proposed Metering Service EFD must match the EFD of the associated Metering Service currently appointed to the Registration
372		19	Instance	[DS] For appointment scenario ‘USP’ the referenced Data Service Provider must match the current Data Service Provider for the current Registration
373		20	Instance	[MS] For appointment scenario ‘USP’ the proposed Data Service EFD must match the EFD of the associated Data Service currently appointed to the Registration
374		21	Instance	[MS] For appointment scenario ‘CSP’, the referenced Metering Service Provider must NOT match the current Metering Service Provider for the current Registration
375		22	Instance	[DS] For appointment scenario ‘CSP’, the referenced Data Service Provider must NOT match the current Data Service Provider for the current Registration
376		23	Related Entity	[MS] for appointment scenarios ‘CSP’ and ‘SEG’, if no previous confirmed Metering Service exists for the Registration, AND SYSDATE < ISD EntityM14 Final Reconciliation settlement date for the Registration Supply Start Date, then the proposed EFD must match the later of the Registration EFD or the MPAN MHHS Migration Date
377		24	Related Entity	[DS] for appointment scenarios ‘CSP’ and ‘SEG’, if no previous confirmed Data Service exists for the Registration AND SYSDATE < ISD EntityM14 Final Reconciliation settlement date for the Registration Supply Start Date, then the proposed EFD must match the later of the Registration EFD or the MPAN MHHS Migration Date
378		25	Instance	[MS] for appointment scenario ‘CSP/SEG’, if a previous Confirmed Metering Service exists for the Registration the proposed EFD must be > existing MS EFD

#	Entity	Rule #	Type	Rule
379		26	Instance	[DS] for appointment scenario 'CSP/SEG', if a previous Confirmed Data Service exists for the Registration the proposed EFD must be > existing DS EFD
380		27	Attribute	If appointment scenario is 'COS' or 'MCS' the CSSRegistrationID must reference a pending registration
381		28	Attribute	If appointment scenario is 'COS' or 'MCS' the proposed EFD must match the Registration EFD
382		29	Attribute	If appointment scenario is 'SEG' the CSSRegistrationID must relate to the currently appointed Supplier or a Pending Suppler registration
383		30	Instance	[MS] If appointment scenario is 'SEG', where the submitting Supplier is the current Supplier the proposed Metering Service must differ to the current MS of the registration
384		31	Instance	[DS] If appointment scenario is 'SEG', Where the submitting Supplier is the current Supplier, the proposed Data Service must differ to the current DS for the registration
385		32	Attribute	responseCode must be a valid value in list (A,R)
386		33	Attribute	Response Message must not be null when Response Code is R
387		34	Attribute	Response Message must be a valid value in the Appointment Response Code Domain
388		35	Attribute	Effective From Date must be midnight local time
389		36	Instance	[MS] If appointment scenario is 'CSP' or 'SEG' and a previous end-dated Metering Service exists for the Registration AND SYSDATE < ISD Entity M14 Final Reconciliation settlement date for the previous MS ETD, the proposed MS EFD must match the previous MS ETD + 1
390		37	Instance	[DS] If appointment scenario is 'CSP' or 'SEG' and a previous end-dated Data Service exists for the Registration AND SYSDATE < ISD Entity M14 Final Reconciliation settlement date for the previous DS ETD, the proposed DS EFD must match the previous DS ETD + 1
391		38	Related Entity	For appointment scenario COS, CSP, SEG and USP, specified MPAN must **not** be at MHHS Status of 'Legacy Not Migrated', 'Legacy Reverse Migrated' or 'Pending Legacy'
392		39	Related Entity	MCA/MCS scenarios cannot be used by a non-qualified Supplier
393		40	Related Entity	For appointment scenario MCA and MCS, specified MPAN must be at MHHS Status of 'Legacy Not Migrated', 'Legacy Reverse Migrated' or 'Pending Legacy'

#	Entity	Rule #	Type	Rule
394		41	Attribute	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Service Provider EFD
395		42	Related Entity	If appointment scenario is 'MCA' or 'MCS', a Pending Registration, for the same MPAN, with a different CSSRegistrationID must not exist
396	METERING SERVICE		G1	
397			G2	For same MPID and DIP ID
398	METERING POINT STANDARD SETTLEMENT CONFIGURATION (MHHS)		G1	
399			G2	for a METERING POINT
400		1	Attribute	*EFD* <= Entry Date
401		2	Instance	The *EFD* of a new SSC for METERING POINT must > *EFD* of latest SSC
402		3	Attribute	*EFD* of a default SSC must = *EFD* of REGISTRATION
403		4	Attribute	Mandatory non nullable when at least 1 Meter installed of type 'TRAD'
404		5	Attribute	*EFD* >= Reg EFD the active registration
405		6	Related Entity	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
406		7	Related Entity	EFD must not be prior to the MPAN MHHS Forward Migration Date
407		8	Related Entity	Specified MPAN must not be disconnected
408		9	Attribute	When proposed SSC is not null, the proposed EFD must be populated
409		10	Attribute	When the proposed SSC is null and the proposed EFD is not null, there must be an existing SSC to end date
410		11	Attribute	SSC must be a valid value between 0000-9999
411	METERING POINT STATUS		G1	

#	Entity	Rule #	Type	Rule
412			G2	for a METERING POINT
413			G4	for a METERING POINT
414			G5	[Legacy] 'Traded' status only if associated entity ENERGISATION STATUS exists
415			G5	'Registered' or 'Traded' only if associated entity REGISTRATION exists.
416		1	Attribute	Identifier is in set { 'N', 'R', 'T', 'X' }
417		2	Attribute	Valid Status transitions are: 'N' to { 'R', 'T', 'X' }; 'R' to { 'T', 'X' }; 'T' to { 'X' }
418		3	Attribute	For 'disconnected' status *EFD* <= date of entry
419		4	Attribute	*EFD* >= Entry Date - Retrospective Change Period
420		5	Instance	New *EFD* > *EFD* of latest status for METERING POINT
421		6	Related Entity	For 'disconnected' MPAN cannot have an entry in MP_PRIMARY_RELATIONSHIPS or MP_SECONDARY_RELATIONSHIP where the MPRS System Date is between the respective EFD and xETD of the relationship.
422		7	Related Entity	For 'disconnected' status *EFD* must not be prior to the active registration SSD
423		8	Related Entity	[MHHS] For 'disconnected' status *EFD* must not be prior to the MPAN MHHS Migration Date
424		9	Attribute	For 'disconnected' status MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Disconnection Date
425		10	Related Entity	For 'disconnected' MPAN cannot be in an active Import Export Association
426	MP CONFIGURATION PROFILE (Legacy MPANs only)		G1	
427			G2	for a REGISTRATION
428			G5	for a STANDARD SETTLEMENT CONFIGURATION PROFILE CLASS
429			G3	for a METERING POINT of type NHH
430			G5	for a MTC/SSC COMBINATION where METERING POINT METER/TIMESWITCH CLASS exists

#	Entity	Rule #	Type	Rule
431		1	Related Entity	MP PROFILE CLASS must not exist for same MP on *EFD*
432		2	Related Entity	*EFD* of profile of a 'disconnected' MP <= disconnection date of METERING POINT
433		3	Attribute	*EFD* <= Entry Date + Advance Change Period
434		4	Attribute	*EFD* >= Entry Date - Retrospective Change Period
435		5	Related Entity	*EFD* of a default profile must = *EFD* of REGISTRATION
436		6	Instance	The *EFD* of a new profile for REGISTRATION must >= *EFD* of latest profile
437		7	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
438	MP PROFILE CLASS (Legacy MPANs only)		G1	
439			G2	for a REGISTRATION
440			G5	for PROFILE CLASS
441		1	Related Entity	MP CONFIGURATION PROFILE must NOT exist for same MP on *EFD*
442		2	Related Entity	Must be same type as MEASUREMENT CLASS on *EFD*
443		3	Related Entity	*EFD* of profile of a 'disconnected' MP <= disconnection date of METERING POINT
444		4	Attribute	*EFD* <= Entry Date + Advance Change Period
445		5	Attribute	*EFD* >= Entry Date - Retrospective Change Period
446		6	Related Entity	*EFD* of a default profile must = *EFD* of REGISTRATION
447		7	Instance	The *EFD* of a new profile for REGISTRATION must >= *EFD* of latest profile
448		8	Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
449	MP PROFILE CLASS (Adv/Trad MHHS MPANs)		G1	
450			G2	for a REGISTRATION

#	Entity	Rule #	Type	Rule
451		1	Attribute	*EFD* <= *Entry Date*
452		2	Related Entity	*EFD* of a default profile must = *EFD* of REGISTRATION
453		3	Instance	The *EFD* of a new profile for REGISTRATION must > *EFD* of latest profile
454		4	Related Entity	Profile Class must be specified when at least 1 Meter installed of type 'TRAD'
455		5	Related Entity	EFD must be >= Active Registration SSD
456		6	Related Entity	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
457		7	Related Entity	EFD must not be prior to the MPAN MHHS Migration Date
458		8	Related Entity	Specified MPAN must not be disconnected
459		9	Attribute	When proposed Profile Class is not null, the proposed EFD must be populated
460		10	Attribute	When the proposed Profile Class is null and the proposed EFD is not null, there must be an existing Profile Class to end date
461		11	Attribute	profileClass must be a valid value between 01-08 or 1-8
462	MP GREEN DEAL		G1	
463			G3	For Green Deal Licensee
464			G4	For METERING POINT at status 'traded'
465		1	Related Entity	MP DUoS Tariff ID must be of type IMPORT
466		2	Attribute	EFD > Entry Date
467		3	Related Entity	MPAN must not have a registration with Registration Status Pending
468		4	Related Entity	MPAN must not have a registration with Registration Status Secure Active and Supply Start Date > MPRS System Date
469		5	Related Entity	Green Deal ETD must not be prior to MPAN Disconnection Date
470	MP IN HOME DISPLAY INSTALL STATUS		G1	

#	Entity	Rule #	Type	Rule
471			G2	for a REGISTRATION
472			G5	for a REGISTRATION
473		1	Attribute	[Legacy] Must be I, D, E, F (representing Installed, Declined, Existing or Failed)
474		2	Attribute	[Legacy] EFD >= Entry Date – Retrospective Change Period
475		3	Attribute	EFD <= Entry Date
476		4	Instance	[Legacy] The *EFD* of a new MP IN HOME DISPLAY INSTALL STATUS for REGISTRATION must >= *EFD* of latest MP IN HOME DISPLAY INSTALL STATUS
477		5	Instance	[MHHS] The *EFD* of a new MP IN HOME DISPLAY INSTALL STATUS for REGISTRATION must > *EFD* of latest MP IN HOME DISPLAY INSTALL STATUS
478		6	Related Entity	EFD of a default MP IN HOME DISPLAY INSTALL STATUS will retain the EFD of the latest status for the previous Registration
479		7	Related Entity	[MHHS] IHD Status cannot be set where Market Segment is not Smart (validated on PUB-025 only)
480		8	Related Entity	[MHHS] IHDEffectiveFromDate must be >= meterInstallationDate (validated on PUB-005 only)
481		9	Related Entity	[MHHS] specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
482		10	Related Entity	[Legacy] Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
483		11	Related Entity	[MHHS] Specified MPAN must not be disconnected
484	MP SMETS VERSION	1	G1	
485			G2	for a REGISTRATION
486			G5	for a SMETS VERSION
487			Related Entity	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
488	MTC/SSC COMBINATION		G1	

#	Entity	Rule #	Type	Rule
489		1		*ETD* >= *ETD* of any related METERING POINT METER/TIMESWITCH CLASS
490		2		*ETD* >= *ETD* of any related MP CONFIGURATION PROFILE
491	PROFILE CLASS		G1	
492		1	Related Entity	*ETD* >= *ETD* of any associated SETTLEMENT CONFIGURATION CLASS
493		2	Related Entity	*ETD* >= *ETD* of any associated MP PROFILE CLASS
494	REFRESH REQUEST	1	Attribute	Significant From Date <= 'Current Date' + 2 years
495	REGISTRATION		G1	
496			G2	for a METERING POINT ignoring REGISTRATIONS with registration status 'cancelled
497			G3	for SUPPLIER
498			G4	for 'registered' or 'traded' METERING POINT
499		1	Attribute	*EFD* > entry date
500		2	Instance	New Supplier must not be currently liable for the MP
501		3	Related Entity	METERING POINT STATUS not 'disconnected' on *EFD*
502		4	Instance	No existing REGISTRATION for the METERING POINT can be pending. ('pending' on a date = *EFD* > the date) (ignoring REGISTRATIONS with registration status 'cancelled)
503		5	Attribute	Entry date >= receipt date
504		6	Attribute	Supplier must be Green Deal Licensee if active or future Green Deal exists
505		7	Attribute	Registration Inactive Date >= MPRS system date where the MPAN Status is Disconnected
506		8	Attribute	Registration Inactive Date >= Supply Start Date
507		9	Attribute	Registration Status From Date must not be prior to the previous Registration Status From Date
508		10	Attribute	If Registration Status = 'Secured Inactive' then Registration Effective To Date already set OR the MPAN Status is Disconnected.

#	Entity	Rule #	Type	Rule
509		11	Instance	Valid Registration Status transitions are: NULL to 'Pending'; 'Pending' to {'Cancelled' or 'SecuredActive' };' SecuredActive' to 'SecuredInactive'
510		12	Attribute	If Registration Status = 'Cancelled' then Supply Start Date > MPRS System Date
511	RESEND REQUEST	1	Attribute	Data format must be specified for resend method other than network
512	SETTLEMENT CONFIGURATION PROFILE CLASS		G1	
513			G3	for PROFILE CLASS
514			G3	for STANDARD SETTLEMENT CONFIGURATION
515		1	Attribute	*ETD* >= *ETD* of any associated MP CONFIGURATION PROFILE CLASS
516	SMART METERING SYSTEM OPERATORS		G1	
517			G2	for same ID
518	SMART METERING SYSTEM OPERATORS APPOINTMENTS		G1	
519			G2	For a REGISTRATION
520			G3	associated entity = REGISTRATION
521			G5	Associated entity = SMART METER SYSTEM OPERATORS
522		1	Attribute	[Legacy] EFD >= Entry Date – Retrospective Change Period
523		2	Attribute	[MHHS] EFD >= Entry Date – MHHS RETROSPECTIVE CHANGE DAYS
524		3	Attribute	EFD <= Entry Date
525		4	Related Entity	[Legacy] EFD of a default appointment will retain the EFD of the latest appointment for the previous Registration
526		5	Instance	[Legacy] The *EFD* of a new appointment for REGISTRATION must >= *EFD* of latest appointment.

#	Entity	Rule #	Type	Rule
527		6	Instance	[MHHS] The *EFD* of a new appointment for REGISTRATION must > *EFD* of latest appointment.
528		7	Attribute	[MHHS] When populated the Market Segment MUST be Smart
529		8	Related Entity	[Legacy] Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated' or 'Pending MHHS'
530		9	Related Entity	[MHHS] Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
531		10	Related Entity	Specified MPAN must not be disconnected
532	SMETS VERSION	G1		
533		1	Attribute	Must be a valid SMETS Version as defined by Elexon
534	STANDARD SETTLEMENT CONFIGURATION		G1	
535		1	Related Entity	*ETD* >= *ETD* of any associated SETTLEMENT CONFIGURATION PROFILE CLASS
536	SUPPLIER		G1	
537			G2	for same ID

3 ATTACHMENT 2 – DATA FLOW VALIDATION

Examples of the Impact of MPRS Business Entity Rules on Inward Data Flows from Suppliers

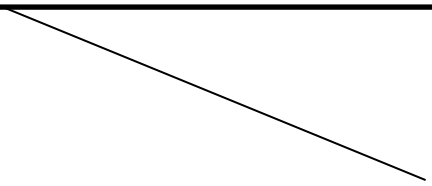
The examples below are based on extracts from the Data Transfer Catalogue. These illustrate the impact of the Business Entity rules listed in Attachment 1 on the data flows from a Supplier to MPRS.

For DIP message structures please refer to the REC EMDS

These are examples only and are not exhaustive of all the rules in Attachment 1.

Examples of rules are shown as text in a box like this.

A line will indicate the associated data item(s) where appropriate.



MRA Secretariat **MRA Data Transfer Catalogue**

Flow Reference: **D0205**
Flow Name: **Update Registration Details**

Flow Description: A Supplier initiated update of registration details
Flow Type: Electronic and Manual
Flow Sensitivity: Medium
Data Protection: No
Flow Ownership: MRA

From	To	Version
Supplier	MPAS	2.0

Data Items:

Reference	Item Name
J0163	Data Aggregation Type
J0183	Data Aggregator Id
J0205	Data Collector Id
J0218	Data Collector Type
J0219	Effective from Date {DCA}
J0210	Effective from Date {MOA}
J0334	Effective from Settlement Date {DAA}
J1836	Effective from Settlement Date {IHDI}
J0297	Effective from Settlement Date {MSES}
J0307	Effective from Settlement Date {MSMC}
J0308	Effective from Settlement Date {MSPC}
J0049	Effective from Settlement Date {REGI}
J0300	Effective from Settlement Date {SCON}
J1838	Effective from Settlement Date {SMSO}
J0080	Energisation Status
J0330	File Sequence Number
J1835	In Home Display Install Status
J0109	Instruction Number
J0723	Instruction Type
J0082	Measurement Class Id
J0178	Meter Operator Id
J0675	Meter Operator Type
J0301	Meter/Timeswitch Class Effective from Date
J0220	Meter/Timeswitch Class Id
J0003	MPAN Core
J0071	Profile Class Id
J1837	Smart Metering System Operator
J1839	SMETS Version
J0076	Standard Settlement Configuration Id

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
752	File Sequence Number	1		G								
					1							File Sequence Number
452	Identify Specific Registration and Provide Update Details	1-*			G							

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
						1						Instruction Number
						1						Instruction Type
			MPAN Core / Effective from Settlement Date {REGI} must identify the registration. MPAN must not have a Migration Status of MHHS Migrated, MHHS New Connection or Pending MHHS			1						MPAN Core
						1						Effective from Settlement Date {REGI}
						O						Energisation Status
			Any Effective from Settlement Date {XXXX} must not be prior to the previous EfSD for that data item AND must be within the period of validity of that data item.			O						Effective from Settlement Date {MSES}
						O						Measurement Class Id
						O						Effective from Settlement Date {MSMC}
						O						Meter Timeswitch Code
			All or None of the data items of a “group” [illustrated by **{ }**] must be specified.			O						Meter Timeswitch Code Effective from Date
						O						Profile Class Id
						O						Effective from Settlement Date {MSPC}
			This “group” is a special case - refer to Attachment 3 # 1.			O						Standard Settlement Configuration Id
						O						Effective from Settlement Date {SCON}
						O						Data Aggregator Id
			The DA Type must be the same as the Measurement Class Type at the Effective from Settlement Date {DAA}.			O						Data Aggregation Type
						O						Effective from Settlement Date {DAA}
						O						Data Collector Id
			The DC Type must be the same as the Measurement Class Type at the Effective from Settlement Date {DCA}.			O						Data Collector Type
						O						Effective from Date {DCA}
						O						Meter Operator Id
			The Meter Operator must be the correct type (MOp, UMSO or MA) if Measurement Class provided.			O						Meter Operator Type
						O						Effective from Date {MOA}
						O						SMETS Version
						O						SMS Operator ID
			These smart items can only be set to the same day as the entry date or retrospectively			O						Effective from Date {SMSO}
						O						IHD Install Status
						O						Effective from Date {IHDI}

Notes:

The rules for including specific data items and the dependency between items are to be specified within the MPAS Agreement.

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 3.1	1398	Data Item ‘Effective from Settlement Date {MCLA} corrected to Effective from Settlement
Version 3.1	1462	As per Data Interface requirements, sequential file and instruction numbers included in this

Catalogue release	CR No.	Brief description of the change and its reason
Version 3.1	1562	Sub Groups removed as per MPRS design specifications.
Version 3.1	1981	Notes added for clarity and consistency

Flow Reference: **D0324**

Flow Name: **Advise Green Deal Active at MPAN**

Flow Description: Transaction to inform MPAS of a request to "flag" MPANs as having an active GD Plan associated with them between specific dates

Flow Type: Electronic and Manual

Flow Sensitivity: Medium

Data Protection: No

Flow Ownership: MRA

From	To	Version
GDCC	MPAS	1.0

Data Items:

Reference	Item Name
J1787	GD MPAN EFD
J1788	GD MPAN ETD
J1809	GDCC Instruction Number
J1813	Green Deal MPAN Core

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
03H	Green Deal MPAN Instruction	1		G								
					1							Green Deal MPAN Core
					1							GDCC Instruction Number
144	GD MPAN Dates	1-*			G							
						1						GD MPAN EFD
						1						GD MPAN ETD

For a first Green Deal both EFD and ETD must be provided. To update a Green Deal only the changed date should be included. A registration cannot be pending.

Notes:

The GD Plan MPAN Effective From Date must always be in the future The GD Plan MPAN Effective To Date cannot be earlier than the GD Plan Effective From Date. Data Items in Group 04H should all be populated on the first notification to MPAS, on subsequent notifications, these should only be populated where they differ from the values held, but at least one must be present.

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 10.2	3338	New Data Flow created

Flow Reference: **D0350**

Flow Name: **Notification of DCC Services at Metering Point**

Flow Description: DCC notifies MPAS that it is providing communication services to a metering point and provides any data updates required for MPAS.

Flow Type: Electronic and Manual

Flow Sensitivity: Medium

Data Protection: No

Flow Ownership: MRA

From	To	Version
DCC	MPAS	10.7

Data Items:

Reference	Item Name
J1833	DCC Service Flag
J1834	Effective From Date {DCCF}
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0003	MPAN Core
J0084	Supplier Id

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
81H	File Sequence Number	1		G								
					1							File Sequence Number
82H	List of Withdrawals	1-*			G							
						1						Instruction Number
						1						Instruction Type
						1						MPAN Core
						1						DCC Service Flag
						1						Effective from Date {DCCF}
						1						Supplier ID

Notes:
The notifying Supplier ID will inform MPAS which supplier requested the DCC flag update.

Version History:

Catalogue release	CP No.	Brief description of the change and its reason
Version 10.7	3362	New Data Flow 'Notification of DCC Services at Metering Point' created to support extended 'Smart' MPAD.
Version 11.0	3408	Data Item J0084 "Supplier ID" added to group 82H

Flow Reference: **D0304**

Flow Name: **Notification of Meter Asset Provider**

Flow Description: This is a notification sent to inform Parties the identity of the New MAP for particular metering equipment.

Flow Type: Electronic and Manual

Flow Sensitivity: Medium

Data Protection: No

Flow Ownership: MRA

From	To	Version
MOP	MPAS	12.5
MPAS	MOP	12.5

Data Items:

Reference	Item Name
J0012	Additional Information
J1679	Associated Equipment Serial Number
J1678	Associated Equipment Type
J0048	Contract Reference
J1682	Effective from Date {MAPA}
J0410	Manufacturers Make & Type
J1677	Meter Asset Provider Id
J0004	Meter Id (Serial Number)
J0003	MPAN Core
J2255	MPAS D0304 Response Code
J0275	Service Level Reference
J0274	Service Reference
J0716	Timing Device Id (Serial Number)

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
77C	New MAP Details	1		G								
					1							Meter Asset Provider Id
					1							Effective from Date {MAPA}
78C	MPAN Cores	1-*			G							
						1						MPAN Core
						0						Additional Information
						0						Contract Reference
						0						Service Reference
						0						Service Level Reference
79C	Meter Details	1-*				G						
							1					Meter Id (Serial Number)
							1					Manufacturers Make & Type

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
							0					Timing Device Id (Serial Number)
80C	Associated Equipment Details	0-*					G					
								1				Associated Equipment Type
								1				Associated Equipment Serial Number
72M	MPAS Response	1-*	MPAS Only					G				
									1			MPAS D0304 Response Code

Notes:
MPRS only stores the following data items from this flow:

- Meter Asset Provider ID (J1677)
- Effective From Date {MAPA} (J1682)
- MPAN Core (J0003)
- Meter ID (Serial Number) (J0004)

Version History:

Catalogue release	CP No.	Brief description of the change and its reason
7.4	3142	Data Flow created.
7.4	3186	MOP to Supplier and MOP to Distributor instance added. Flow Description amended.
12.5	3554	MOP to MPAS and MPAS to MOP instance added. Response group added
12.5	3563	Condition of “MPAS Only” added to “MPAS Response” Data Group

MM00256 - D0312 - 003 - Notification of Meter Information to MPAS

Market Message Reference	MM Description	Legacy Reference	Version	Notes
MM00256	Update MPAS with change to non-MPAS sourced data and the response	D0312	003	See Annex C for Flow Notes

Scenario Variants

Scenario Variant	Name	Source	Target	Owner
SV00256	Notification of Meter Information to MPAS	MEM	ERDA	RECCo
SV00258	Notification of Meter Information to MPAS	ERDA	MEM	RECCo
SV00259	Notification of Meter Information to MPAS	ERDA	Supplier	RECCo

Data Items

Data Item ID	Legacy Reference	Name
DI50003	J0003	MPAN Core
DI50004	J0004	Meter Id (Serial Number)
DI50102	J0178	Meter Operator Id
DI50230	J0483	Meter Type
DI50406	J0848	Date of Meter Installation
DI50635	J1269	Date of Meter Removal
DI51003	J1677	Meter Asset Provider Id
DI51544	J2256	MOP Flow Response Code
DI51599	J2312	ESME ID
DI51600	J2313	Number of Displayed Register Digits
DI50194	J0419	Meter Location

SV00256 Flow Structure

Group ID	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Data Item Name	Value Rule
11D	MPAN Core	1-*		G									
					1							MPAN Core	
12D	Meter Info Group	0-*	Meter Info Group is Mandatory for each meter installed at a metering point; message collection must be Not Present if no meters are installed.		G								
						1						Meter Id (Serial Number)	
						1						Meter Type	If the Metering Point is Half Hourly then the only permissible enumeration value is H.
						1						Meter Asset Provider Id	
						1						Date of Meter Installation	
			Where the Meter Type is prefixed with "S1", "S2" or "2", Meter Location is Mandatory. Meter Location is Null for all other Meter Types.			C						Meter Location	
			Where the Meter Type is prefixed with "S1", "S2" or "2", ESME ID is Mandatory. ESME ID is Null for all other Meter Types.			C						ESME ID	Where the ESME ID is unknown and cannot be provided, the ESME ID should be populated as "00-00-00-00-00-00-00-00"
			Where the Meter Type is prefixed with "S1", "S2" or "2", Number of Displayed Register Digits is Mandatory. Number of			C						Number of Displayed Register Digits	Where the Meter Type is S1, the value should be populated as per the manufacturer specification. Where the

			Displayed Register Digits is Null for all other Meter Types.										Meter Type is S2A, S2AD, S2ADE, 2ADF, 2ADEF, 2AEF, 2AF, S2B, S2BD, or S2BDE, 2BF, 2BDF, 2BDEF or 2BEF the value must be "5". Where the Meter Type is prefixed with "S2C" the value must be "6". Where the Meter Type is 2CDEF, 2CF, 2CDF or 2CEF the value must be "6".
13D	Meters Removed	0-*	Meters Removed message collection is Mandatory if the message is generated following a meter removal or exchange event at the Metering Point; or message collection must be Not Present if generated for any other event.		G								
						1						Meter Id (Serial Number)	
						1						Date of Meter Removal	
						1						Meter Asset Provider Id	
						O						ESME ID	
76M	Sending Meter Operator	0-0			G								
						O						Meter Operator Id	
77M	Response	0-0				G							
							O					MOP Flow Response Code	

Flow Reference: **D0386**

Flow Name: **Manage Metering Point Relationships**

Flow Description: Used to initiate a change to a metering point relationship.

Flow Type: Electronic

Flow Ownership: MRA

From	To	Version
Supplier	MPAS	12.5
MPAS	Supplier	12.5

Data Items:

Reference	Item Name
J0109	Instruction Number
J2242	MPAN Action
J2243	Primary MPAN
J2240	Related MPAN Response Code
J2241	Relationship Action
J2244	Secondary MPAN

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
18M	Relationship Action	1-*		G								
					1							Primary MPAN
					1							Relationship Action
					1							Instruction Number
19M	Secondary MPANs	1-*			G							
						1						Secondary MPAN
						1						MPAN Action
20M	MPAS Response	1-*	MPAS Only		G							
						1						Related MPAN Response Code

Notes:

Version History:

Catalogue release	CP No.	Brief description of the change and its reason
Version 12.5	3550	New flow and data items created

ATTACHMENT 3 – ADDITIONAL RULES

Additional MPRS Rules/Constraints/Design Features Applicable to Data Flows/Messages

The following information is provided to aid the understanding of the use and the required content of Supplier data flows.

1.	Data Flow D0205 (= SP02) MPRS uses the Profile Class, Standard Settlement Configuration and their respective Effective From Dates from the D0205 to create a combination known as a Configuration Profile, which is compared to valid PC/SSC combinations in MDD. The mapping between the D0205 data items to an MPRS Metering Point Configuration Profile (MP CP) is shown below: 1. Profile Class ID (PC ID) 2. Metering Point Profile Class Effective From Date (MP PC EFD) = (MSPC EFD) 3. Standard Settlement Class ID (SSC ID) 4. Metering Point Configuration Profile Effective From Date (MP CP EFD) = (SC EFD) For a change to a. (NHH) PC only items 1 and 2 or items 1 and 4 must be provided. b. (NHH) SSC only items 3 and 4 only must be provided. c. (NHH) PC and SSC items 1, 2, 3 and 4 or 1, 3, 4 only must be provided. The HH Profile Class is '00' and if not specified will default to this value.
2.	No appointment nor change to metering point related data is accepted if the Effective From Date of the new information is earlier than the Effective From Date of any existing occurrence of the same entity. MPRS does not allow the insertion of instances of data entities whose period of effectiveness is before an already existing instance.
3.	When a registration is cancelled for a Legacy MPAN (not MHHS Migrated) any changes to the metering point data made by the Distribution Business between receiving the Pending and Cancellation notices to MPRS, are notified to suppliers via the D0089 data flow. (= SP51, SP64) MPRS understands that other systems may use the D0171 (= SP28, SP29) data flow.

4.	To facilitate CP1267, MPRS supports the assignment of a Meter Operator (MOp), Meter Administrator (MA) or an Unmetered Supplies Operator (UMSO) agent to a registration. The agent is taken from the Meter Operator Id (MOID) field (J0178) on the 0205 flow. MPRS performs validation on data received from the D0205 flow to check (where possible) that the Meter Operator ID, Meter Operator Type and Measurement Class (MC) are consistent. Because the Meter Operator ID and Measurement Class are optional fields on the D0205 flow, this validation will only be performed when both fields are populated on the flow, or where loading the flow creates both items by virtue of one of the data items already existing within MPRS. When the MOID and MC are present, validation is performed as follows: • MPRS validates that a Meter Operator is provided for a metered Measurement Class (A,C,E,F,G) and that the agent is of the same type (HH/NHH) as the Measurement Class for the period. • MPRS validates that an UMSO is provided for a NHH unmetered Measurement Class (B) • MPRS validates that a Meter Administrator is provided for a HH unmetered Measurement Class (D) • Where a Meter Operator ID is provided in the flow but no Measurement Class exists (either on the flow or within MPRS), MPRS will assume that the MPAN is metered and assign a Meter Operator. The Meter Operator will be validated to ensure that it is present in the MPRS list of valid MOps. If any of these checks fail then the flow will be rejected. MPRS will also attempt to perform an agent re-assignment to correct data mismatches (and avoid flow rejections) under the following specific circumstance: • Where the D0205 flow contains a Measurement Class that represents an Unmetered MPAN but the agent on MPRS is a MOp, MPRS will use the MPID of the agent currently assigned in MPRS and determine whether there is an MA (for HH MCs) or UMSO (NHH MCs) with the same MPID. If so, the MA or UMSO will be substituted for the MOp; if not the flow will be rejected.
5.	When the Meter Type is changed for a Legacy MPAN - HH to NHH or vice versa - ALL relevant data MUST be supplied at the time of the change and all this associated data must be of the same new type viz. Data Aggregator, Data Collector, Meter Operator. When the Meter Type is changed for a MHHS MPAN – Smart/Trad to Advanced or vice versa – the incoming Service Provider Appointment EFD (appointment scenario SEG), Connection Type EFD (if changing) and the Meter Installation Date must all be aligned to the date of the meter works.
6.	At any point in time only ONE future change to a data item may be pending. An additional future change to a data item will therefore be rejected if a future change to that data item already exists in MPRS, or for Service Provider Appointments the earlier of the requests will be lapsed.

7. ALL trading data must be present for the registration when the Data Aggregator is appointed. This data must already reside in MPRS or must be supplied in the current message.

8. MPRS validation of DTC messages is based on the Instruction Type Code. Cross validation of Instruction Type Code and Data Transfer Catalogue Flow Type will be performed based on the table below. Any invalid combinations will be rejected with an instruction based on the incoming Data Transfer Catalogue Flow Type (and Instruction Type Code**) with a Rejection Reason Code = 1.

Scenario	**Incoming DTC Flow**	**Incoming Instruction Type Code**	**Rejection DTC Flow**	**Rejection Instruction Type Code for Incorrect Incoming Instruction**
Change of Supplier details	D0205	SP02	D0203	SP30
Notification of Meter Asset Provider	D0304		D0304	
Notification of Meter Information to MPAS	D0312		D0312	
DCC Service Flag	D0350	DC01	D0351	DC11
Manage Metering Point Relationships	D0386		D0386	

9. Many of the timing rules in MPRS are dependent on a set of defined values known as 'Trading Parameters'. A description of these is given below.

   The default, Industry-defined values for these are also given in the list below.

10. Where a D0205 instruction contains an MPAN's MP Configuration Profile or MTC which results in an invalid combination of MTC and SSC then the instruction will be rejected. Validation will only be carried out when both parts of the combination have been received. If a flow containing a new SSC assignment is received for an MPAN which has no MTC or a flow containing a new MTC assignment is received for an MPAN which has no SSC assigned, then this validation will not be applied.

11. **KEY VALIDATIONS FOR D0324**

The validation used by MPRS on receipt of a D0324 from the GDCC is:

- MPAN is not disconnected
- MPAN is Traded on or before the Green Deal EFD
- The Green Deal EFD must be > MPRS System Date
- The Green Deal ETD is on or after the Green Deal EFD
- The current supplier is not cancelled and is a Green Deal licencee as at the Green Deal EFD
- The DUoS Tariff assigned to the MPAN as at the EFD of the GD is an Import type DUoS Tariff (i.e. MS Specific LLF Class Indicator is 'A' or 'B').
- The new Green Deal is not received for an MPAN with a Pending registration.
- The new Green Deal is not received for an MPAN with registration at Status of 'SecuredActive' and Supply Start Date > MPRS System Date

ADVISE OF GREEN DEAL ACTIVE AT MPAN

Once the MPRS System Date has reached the CSS go-live date the current validation applied to the GD01 and GD02 instructions will be changed as follows:

Current rejection (Applied before CSS go-live Date)	Rejection Message No	New rejection (Applied from the CSS go-live date)	New Rejection Message No
Green Deal received for an MPAN during the lockout period of a change of supply.	20571 (341)	Green Deal received for an MPAN with a Pending registration.	20648 (341)
Green Deal received for an MPAN during the lockout period of a change of supply.	20571 (341)	Green Deal received for an MPAN with registration at Status of 'SecuredActive' and Supply Start Date > MPRS System Date	20653 (341)

12. **KEY VALIDATIONS FOR SMART DATA**

Outgoing

All outbound flows produced on or after 8 November 2013 will include the new smart data items where appropriate.

MPRS validates the smart data as follows:

- Future dated EFDs for the SMSO and IHD Install Status smart items are not allowed.
- Unlike other data items in MPRS, unless the smart data items are changed, they retain their original effective from dates.
- SMETS Version does not have an effective from date for a registration, MPRS uses the entry date into MPRS as a pseudo effective from date in order for it to process flows correctly during the objection process.
- DTC CP 3505 introduced the new IHD Status value of Failed (F). For go-live, any instruction containing an IHD Status of 'F' received before close of day on Wednesday 1 November 2017 will be rejected, irrespective of the IHD Status

	Effective From Date. The Effective From Date of any IHD Status of 'F' instructions cannot be < 2 November 2017 • Validation on the IHD Install status value checks it is valid within DTC data item DCC Service Flag {J1833} list of values. There is no concept in MPRS of any valid sequence of events. • Smart data can only be set on the D0205 flow for Legacy MPANs. For MHHS MPANs smart data can be set on the PUB-025 and PUB-005. • As for other MPRS data items, changes to data can only be made for the period of the supplier's registration. Note any changes made by an old supplier, providing they are in the retrospective change period, will be informed to the new supplier. • Appendix A gives an example of the SMSO update. • The associated EFD must be provided when setting the In Home Display Install Status value or the SMSO ID • Smart data is not classed as trading data and is therefore not required for a registration to be classified as traded
13.	**KEY VALIDATIONS FOR DCC SERVICE FLAG (D0350 FLOW)** The D0350 flow will be processed as part of overnight MPRS batch. This is controlled by a switch-on parameter within MPRS to match the formal DCC go-live date. Minimal validation will be performed in relation to the Effective From Date and the Requesting Supplier. MP077 changes the list of allowable values. DCC Service Flag EFD must be <= MPRS system date
14.	**UPRN SUPPRESSION** DTC CP 3486 requires all outbound supplier/CSS flows containing a UPRN data item to have the UPRN suppressed.

15. **KEY VALIDATIONS FOR MANAGING METERING POINT RELATIONSHIPS D0386**

Consequential Response Codes

Scenario – Response Code L (Secondary MPAN is not in a Relationship)

Relationship A	Relationship B
Primary- 9914000000000 Secondary MPANs: 9913110000223	Primary- 9913110000552 Secondary MPANs: 9913110001101

D0386 is sent to MPRS to Delete 9913110000223 from Relationship A. However, the Supplier specifies the Primary MPAN from Relationship B:

Inbound Flow to MPRS:

ZHV|1|D0386001|X|SCST|P|SCST|20190628000000||||OPER|

18M|9913110000552|D|1|

19M|9913110000223|D|

ZPT|1|2||1|20190628000000

MPRS Rejects with:

ZHV|124|D0385001|P|SCST|X|SCST|20190305121213||||OPER|

18M|9913110000552|D|313|

19M|9913110000223|D|

20M|C|

20M|K|

20M|L|

ZPT|124|5||1|20190305121213|

C| secondary MPAN is in another relationship

K| primary MPAN is not in a relationship

L| secondary MPAN is not in a relationship

Consequential code K and L could be misleading as the Primary and Secondary MPANs are in MPAN Relationships However, they are not in the same MPAN Relationship.

16. **PIR702 CSS MANAGE METERING POINT RELATIONSHIPS**

As part of faster switching a new rule introduced is that relationships cannot be created, amended or deleted when there is a pending switch in place. This is to prevent issues such as split supply. Once the MPRS System Date has reached the CSS Delta Go-live Date the validation of the D0386 Flow will be enhanced as follows:

Group No	Validation Rule	Applies To	MPRS Rejection Message No	Rejection Code
18M	There must not be a registration request with a Registration Status = 'Pending' or a Supply Start Date > MPRS System Date	Primary MPAN	20649	F
19M	There must not be a registration request with a Registration Status = 'Pending' or a Supply Start Date > MPRS System Date	Secondary MPAN	20650	F

17. **D0386 RESOLVING BROKEN RELATIONSHIPS**

For the interim stages between CSS Migration Stage 0 and CSS Migration Stage 1 we have allowed the Supplier of the Primary MPAN to Delete the MPAN Relationship where the MPANs have been incorrectly related and a Change of Supply has occurred.

Rule:

Where the Suppliers for the Primary and Secondary MPANs are different, the Supplier of the Primary MPAN is able to Delete the whole relationship (Relationship Action D & MPAN Action D for all Secondary MPANs) or the Secondary MPAN using Relationship Action A & MPAN Action D.

ZHV|1|D0386001|X|SCST|P|SCST|20190628000000||||OPER|

18M|9913110000552|D|1|

19M|9914000000000|D|

19M|9913110000223|D|

ZPT|1|3||1|20190628000000

18. **D0386 RESOLVING DISCONNECTED MPANS**

The MRA states that a MPAN Relationship must be ended before a MPAN can be disconnected. However, in extenuating circumstances a related MPAN could be disconnected before the MPAN Relationship is ended.

To account for this scenario MPRS allows Suppliers to Delete MPAN Relationships in the following scenarios.

Rule:

1. Where a MPAN Relationship has a Secondary MPAN which is disconnected and the Primary MPAN is not disconnected. The Supplier of the Primary MPAN can delete the Secondary Disconnected MPAN using Relationship Action A & MPAN Action D for the Disconnected Secondary MPAN. MPAN Action C must be used for Secondary MPANs which are not disconnected.

   ZHV|1|D0386001|X|SCST|P|SCST|20190628000000||||OPER|

   18M|9913110000552|A|1|

   19M|9914000000000|C|

   19M|9913110000223|D|

   ZPT|1|3||1|20190628000000

2. Where a MPAN Relationship has a Primary MPAN which is disconnected. The Supplier of the Primary MPAN can delete the whole relationship or the Disconnected MPAN. This is performed using Relationship Action D and MPAN Action D for all Secondary MPANs. Or Relationship Action A MPAN Action D for removing only the Disconnected MPAN.

   ZHV|1|D0386001|X|SCST|P|SCST|20190628000000||||OPER|

   18M|9913110000552|D|1|

   19M|9914000000000|D|

   19M|9913110000223|D|

   ZPT|1|3||1|20190628000000

A parameter can be switched on within MPRS to enable this.

19. **KEY VALIDATIONS FOR METER TECHNICAL DETAILS D0312/D0304**

Sending MOP:

The currently appointed MOP can make changes to the Meter Details.

The immediately previous MOP is able to make changes to the Meter Details where the Installation or Removal Date is on or before their MOP appointment Effective To Date (J0360).

Any MOP appointed before the immediately previous MOP cannot make changes to the Meter Details.

D0312 DTC Annex C Rule 1

All data items pertaining to EVERY installed meter defined at the relevant MPAN must be included within Group 12D whether they have changed or not. This group is therefore the definitive statement of meters at a metering point.

Therefore, if previously Installed Meters are not included in the D0312 12D or 13D groups, MPRS will “Implicitly Remove” these Meters.

Disconnections

Meters cannot be installed or changed once an MPAN has been Disconnected.

However, the last MOP to be appointed before the MPAN is disconnected can remove meters after the MPAN has been Disconnected. The Meter Removal date can be set before, on and after the Disconnection Date.

Meter ID (Serial Number)

For all inbound flows into MPRS the data is converted into uppercase and then output to Market Participants in Uppercase. This includes the Meter ID (Serial Number) on the D0312/D0304. Any lower-case Meter ID (Serial Number) will be converted to uppercase in MPRS and EES. Other formatting such as spaces and special characters will be retained.

D0312 Meter Removal Response Code K

A meter can only be removed if it was previously listed the 12D row of the D0312.

If MPRS does not recognise the Meter ID (Serial Number) in the 13D row (i.e. a Meter with this Meter ID is not currently Installed on this MPAN), it will reject with response code K Rejected - Meter ID not Specified.

20. **KEY VALIDATIONS FOR SMART METER TECHNICAL DETAILS REC CP R0032**

ESME ID Population

For MHHS early Migration MPRS will allow the use of a dummy ESME ID on the D312 to help the MEM identify what Smart Equipment is installed at the Metering Point.

If the Installing MEM does not know the ESME ID then “00-00-00-00-00-00-00-00” can be supplied and the following logic will be applied:

- If the Meter Id is recognised, and MPRS holds an ESME ID for this Meter Id then the D0312 response will include the MPRS held ESME ID
- If the Meter Id is recognised, and MPRS does not hold an ESME ID for this Meter ID then the Dummy ESME ID is stored and included on the response back to the MEM. Dummy ESME IDs will be reported on and tracked by the MHHS Programme, these must be cleansed ahead of MHHS Go Live.
- If the Meter Id is not recognised, MPRS will consider this to be a Brand New Smart Meter. MPRS will store Dummy ESME ID and include it on the response back to the MEM. Dummy ESME IDs will be reported on and tracked by the MHHS Programme, these must be cleansed ahead of MHHS Go Live.
- If the Meter Type is Smart and a NULL ESME ID is supplied, MPRS will reject the D0312 with AB

The ESME ID must be unique within MPRS. The exceptions to this rule are:

ESME ID can be shared across MPANs when either:

- the MPAN is part of either a Supplier Related MPAN Relationship
- or the MPAN is part of a LDSO Associated Import Export Association.

This is one Smart Meter shared across many MPANs (Metering Points)

Number of Displayed Register Digits & Meter Location

To assist with MHHS Data Population MPRS will permit the use of NULL for these data items on the D0312. MPRS will work in the following way:

- Where the Meter ID is Recognised on a Smart Meter Type and blank value is provided MPRS will populate the response with the values it holds for these items. If MPRS does not hold a value the response will be blank.
- Where the Meter Id is Not Recognised on a Smart Meter Type MPRS will reject with Y or AA. For new Smart Meters, these values must be included, use of NULL is not permitted

21.	**KEY VALIDATION FOR LDSO ASSOCIATED IMPORT EXPORT MPANS** An Import MPAN can be associated with one or more Export MPANs. However, an Export can only be associated with one Import MPAN. MHHS A Linked MPAN is a MPAN which is in a Supplier Related MPAN relationship (D0386) and/or is in a LDSO Associated Import Export Association. The Primary or Import is referred to as the Principle MPAN. The Export or Secondary is referred to as the Subsidiary MPAN. An Export MPAN cannot be part of a Primary/Secondary Relationship.
22.	**FASTER SWITCHING** From CSS Go Live, all Change of Supply Requests and Initial Registration requests must be submitted to the Central Switching Service (CSS). MPRS will be informed of these Registration Updates and will in response, send a D0217/D0260 to the Gaining Supplier for Legacy MPANs, or for MHHS MPANs, MPRS will issue an IF-002 to DIP on loading of a Pending Notification, and an IF-001 on loading of a Secured Active Notification. Each MPAN in either an MPAN Relationship or OFAF (One Fail All Fail) switch will receive its own Pending/Secured Active notification and so will trigger individual outbound messages (D0217/D0270/IF-002/IF-001 as applicable). For Legacy MPANs, Registration Data and Supplier Agents are set using the D0205, and for MHHS MPANs Service Provider Appointment are submitted via a PUB-031. The D0205/PUB-031 must not be sent to MPRS until the D0217/D0260/IF-002 as applicable has been processed by the Gaining Supplier.
23.	**REGISTRATION TRANSACTION NUMBER J0031** CSS will master a new unique registration identifier called registrationId. This will only be included on messages to and from the CSS, and specific DIP messages for MHHS MPANs. J0031 will be nullified on the D0217 and D0204.
24.	**MHHS DSP RESPONSE FLOW FROM CSS** From MHHS go live, CSS will respond to MDR appointment updates to confirm successful load at DSP. The CP20/C7000 response will be validated as follows 1. Registration ID must be specified 2. Registration ID must be a valid UUID format 3. Registration must exist for specified Registration ID 4. The MDR appointment for specified Registration ID with the same EFD and DSP status Pending or Failed 5. Update Succeeded Indicator must be specified 6. Update Succeeded Indicator must be true or false The DSP response will then be communicated on an IF-035 message via DIP.

25. **MHHS MARKET SEGMENT CALCULATION**

Market Segment is derived in accordance with ISD Entity M7. Where an MPAN is Related or Associated, all MPANs within the linkage must be derived to the same Market Segment.

If the Market Segment of any MPAN within a linked group of MPANs derives to Advanced, then the Market Segment for all MPANs within the linked group will be set to Advanced.

Where mixed metering exists, if any meters fitted at the MPAN are of a Meter Type deriving to Advance the Meter Group will be considered Advanced.

The Market Segment EFD will be derived as follows:

Change Trigger	Market Segment EFD	Notes
Connection Type	Connection Type EFD	If triggers a change to related/associated MPANs Market Segment use the same derived EFD, except in the case where this is prior to the relationship/association EFD in which case use relationship/association EFD instead.
Meter Added/Meter Type Changed	Meter Installation Date	
Meter Removed	Meter Removal Date	
Meter Exchange	Meter Installation Date	
Relationship Created	Relationship EFD	Only amend the Market Segment EFD for MPANs where the Market Segment is actually changed
Relationship Deleted	Relationship EFD	
Association Created	Association EFD	
Association Deleted	Association ETD	

The calculated Market Segment EFD must be >= max(existing Market Segment EFD, SSD, MHHS Migration Date) and the system date must be < ISD Entity M14 Final Reconciliation settlement date for calculated Market Segment EFD.

.

26. **MHHS SERVICE PROVIDER APPOINTMENT REVALIDATION**

Before confirmation, Service Provider Appointments will be subject to revalidation. If this revalidation fails, the Service Provider Appointment will be lapsed and an IF-035 notification issued to notify participants. The Lapse code will be LP007 and will contain a specified REG code in the description indicating the rule that failed.

Revalidation includes following rules

1. MPAN must be at RMP Status of Created or Operational (REG1001)
2. MPAN must not be an active Secondary MPAN in a relationship (REG1039)
3. For CSP, SEG and COS, MPAN must not be an active Export MPAN in an Association, with exception of SDS appointments (REG1038)
4. Consent Granularity, Energy Direction, Domestic Premise Indicator, Market Segment and Meter Category combination must be valid as detailed in ISD (REG1022)
5. Market Segment of MPAN must match the Market Segment of proposed Service Provider (REG1031)
6. For CSP and MCA, the incoming Service Provider must not be the same as the currently confirmed Service Provider for the same registration (REG1026)
7. For SEG, the incoming Service Provider must not be the same as the currently confirmed Service Provider for the same registration (REG1095)
8. The EFD of the incoming Service Provider must be greater than the EFD of the currently confirmed Service Provider for the same registration (REG1032)
9. For MCA/MCS, if the specified MPAN is operating under MHHS arrangements, the EFD of the incoming Service Provider must equal the MHHS Migrated Status EFD (REG9007)
10. For MCA/MCS, if the Service Provider appointment is for a Metering Service on an Export MPAN in an active MPAN association, there must not be any existing confirmed Metering Service appointment for the same registration (REG9007)
11. For MCA/MCS, if the Service Provider appointment is for a Data Service on an Export MPAN in an active MPAN association, there must not be any existing confirmed Data Service appointment for the same registration (REG9007)
12. Must be a valid MDR on proposed EFD

27.	**MHHS SERVICE PROVIDER APPOINTMENT LAPSE TRIGGERS** There are specific events that will cause an appointment request to be lapsed, and an IF-035 issued with the lapse code and description. These are detailed below **LP001 - MPAN has been De-registered:** The MPAN is disconnected and the Registration, for which the Service Provider Appointment request is queued, is de-registered. **LP002 - Subsequent Appointment Received:** A new Service Provider Appointment request is received for the same Registration with a later sender timestamp on the PUB-031 than for the existing queued Service Provider Appointment request. **LP003 - SecuredActive for another Supplier Received:** A Secured Active for a new Registration is received, ending the Registration for which the Service Provider Appointment request was queued. **LP004 - Registration Cancelled:** The Registration for which the COS Service Provider Appointment request is queued is cancelled **LP005 - Change of Segment Failed:** The Market Segment of the SEG Service Provider Appointment Request is not compatible with the Market Segment for the MPAN and system date >= max(Proposed EFD, PUB-034 receipt date) + 3 working days **LP006 - Migration Aborted, New Registration Received:** A Secured Active for a new Registration is received, ending the Registration for which the MCA Service Provider Appointment request was queued. **LP007 - Appointment Failed Queue Processing Validation [REGxxxx]:** The Service Provider Appointment request fails revalidation, the REG code detailing which validation rule specifically has failed. **LP099 - Secured Active not received for Registration [Registration ID]:** Missing Secured Active for the respective Registration that the COS Service Provider Appointment request was submitted for.

28. **UPDATES TO MTDS VIA IF-005**

The following table summarises what event codes can be used for specific changes to MTDs

Event Code	Action
[MeterInstall]	Install a Meter with install date within submitting MS Appointment period
[MeterExchange]	Remove a Meter and install a new Meter in a single process, with removal and install dates within submitting MS Appointment period, and with install date on or later than removal date
[MeterRemoval]	Remove a Meter with removal date within submitting MS Appointment period
[MeterUpdate]	Update an existing installed Meter OR Remove a Meter with removal date prior to submitting MS appointment period
[MeterHistoryUpdate]	Update an existing removed Meter OR Install a Meter with install date prior to submitting MS Appointment period OR Re-instate a removed Meter

The current Metering Service is permitted to use all event codes.

The previous Metering Service can, within 10 working days of the end of their appointment period, use [MeterInstall], [MeterExchange] and [MeterRemoval]. They are also permitted to update the Meter Location on [MeterUpdate].

The previous Metering Service can remove a meter with [MeterRemoval] on a deregistered MPAN, including when this exceeds the 10-working day grace period.

The prospective Metering Service (where the Metering Service has a pending appointment with appointment scenario SEG for the MPAN), can use [MeterInstall], [MeterExchange] and [MeterRemoval].

29. **INVALID NOTIFICATIONS (IF-045)**

Where an MPAN is operating in MHHS Arrangements, MPRS will issue IF-045 notifications to notify of missing Service Provider Appointments, invalid Market Segments or invalid Consent Granularity's. These will be issued once every 7 calendar days until resolved.

The Invalid Market Segment notification will be sent where the Market Segment is invalid and is not corrected within the CHANGE OF MARKET SEGMENT GRACE DAYS period.

Event Code	Additional Information
[NoDSAppointed]	No Data Service since <max(SSD, last DS ETD)>
[NoMSAppointed]	No Metering Service since <max(SSD, last MS ETD)>
[InvalidMarketSegment]	Existing Market Segment <Market_Segment> has been invalid against ISD M7 since <Invalid_Effective_From_Date>. MPAN holds Connection Type <Connection_Type> and Meter Type <List of Meter Types>
[ConsentGranularityInvalid]	Existing Consent Granularity <Consent_Granularity> is invalid against ISD M17. MPAN holds Market Segment <Market_Segment>, Domestic Premises Indicator <Domestic_Indicator>, Energy Direction <Energy_Direction> and Meter Types <List of Meter Types>

30. **PUB-025 PROFILE CLASS AND SSC**

When using PUB-025 to update Profile Class and/or SSC, the data must be populated in accordance with the following rules

- Changing Profile Class and SSC: Populate Profile Class, Profile Class EFD, SSC and SSC EFD
- Changing Profile Class only: Populate Profile Class and Profile Class EFD. SSC and SSC EFD must be null
- Changing SSC only: Populate SSC and SSC EFD. Profile Class and Profile Class EFD must be null
- End Date Profile Class/SSC: To end date a Profile Class/SSC, the proposed Profile Class/SSC must be null, and the EFD must be populated with the date from which to end date the existing value.

Note: Where the there is an active traditional meter installed at the MPAN, and there is no current Profile Class/SSC held at the MPAN, the Profile Class/SSC must be populated on the PUB-025 and must not be null.

31. **AUTO ALIGNMENT OF SERVICE PROVIDER APPOINTMENTS**

When all MPANs within a linked group have migrated to MHHS Arrangements, the following auto alignment functionality is applied.

Confirmation of Metering Service

When a Metering Service is confirmed on a Primary MPAN and/or Linked Import MPAN, the Metering Service Appointment will be auto aligned to the Linked Secondary MPAN(s) and/or Linked Export MPAN(s), including the Contract Reference.

When auto aligning the Metering Service to the Linked Secondary/Export MPAN(s), the EFD must be >= max(current MS EFD + 1, MHHS Migration Date, SSD).

Confirmation of Data Service

When a Data Service is confirmed on a Primary MPAN, the Data Service Appointment will be auto aligned to the Linked Secondary MPAN(s), including the Contract Reference, Traditional Fall-Back Read Frequency, Consent Granularity and MDR.

When a Data Service is confirmed on an Advanced Linked Import MPAN, the Data Service Appointment will be auto aligned to the Linked Export MPAN(s), including the Contract Reference and Traditional Fall-Back-Read Frequency. The Consent Granularity and MDR will **not** be auto aligned to the Linked Export MPAN(s).

When a Data Service is confirmed on a Smart Linked Import MPAN, the Data Service Appointment will **not** be auto aligned to the Linked Export MPAN(s).

When auto aligning the Data Service to the Linked Secondary/Export MPAN(s), the EFD must be >= max(current DS EFD + 1, MHHS Migration Date, SSD).

SDS initiated change of MDR (event code [SDS-MDRUpdate])

When an SDS initiated change to the Meter Data Retrieval Agent is confirmed on a Primary MPAN, the Meter Data Retrieval Agent will be auto aligned to the Linked Secondary MPAN(s).

When an SDS initiated a change to the Meter Data Retrieval Agent is confirmed on a Linked Import MPAN, the Meter Data Retrieval Agent will **not** be applied to the Linked Export MPAN(s).

Update to existing Metering Service Appointment

When the Metering Service Appointment on a Primary MPAN or Linked Import MPAN is updated, and the update includes a change to the Contract Reference, the new Contract Reference will be applied to the Secondary/Linked Export MPAN(s).

Update to existing Data Service Appointment

When the Data Service Appointment on a Primary MPAN is updated, any changes to Contract Reference, Traditional Fall-Back Read Frequency and MDR appointments will be applied to the Linked Secondary MPAN(s).

When the Data Service Appointment on a Linked Advanced Import MPAN is updated, any changes to Contract Reference and Traditional Fall-Back Read Frequency will be automatically applied to the Linked Export MPAN(s). Changes to MDR will **not** be applied to the Linked Export MPAN(s).

Note: Consent Granularity must not be updated via a USP scenario, instead PUB-025 must be used.

32.	**IF-037/IF-003 REGISTRATION ID** The B013 block in the IF-037 in the case of a CoS will be populated with the incoming Registration ID, not the outgoing Registration ID. The B013 block in the IF-003 will be populated with the incoming Registration ID, not the outgoing Registration ID.

Trading Parameters

Parameter (Default value)	Default Value	Description
ADVANCE CHANGE PERIOD	28	The maximum number of calendar days in advance that a change can be made to Metering Point or Appointment Details for a Registration by a Supplier on a Legacy MPAN
MPRS OUTPUT RETENTION PERIOD	28	The number of working days for which an MPRS Output must be retained.
MPRS OUTPUT RETENTION QUANTITY	5	The number of MPRS Outputs which must be retained for a Market Participant.
RETROSPECTIVE CHANGE PERIOD	310	The maximum number of working days allowed between a MP Details or Appointment change being made and entered onto MPRS.
MHHS RETROSPECTIVE CHANGE DAYS	5	The maximum number of calendar days allowed between a MHHS data item change being made and entered onto MPRS by a Supplier.
MHHS ADVANCE CHANGE DAYS	30	The maximum number of calendar days in advance that a change can be made to MHHS data item by a Supplier.
MHHS END DATED MS MTD UPDATE DAYS	10	The maximum number of working days allowed between the end date of a Metering Service Appointment and the submission of Meter Technical Detail changes from the Metering Service
ADVANCE SP APPOINTMENT CALENDAR DAYS	28	The maximum number of calendar days in advanced that a Service Provider Appointment request can be submitted by a Supplier.
SP APPOINTMENT UPDATE DAYS	10	The maximum number of working days allowed between the end date of a Metering Service Appointment and the submission of Energisation Status changes by the Metering Service
DIRECT CUSTOMER CONTRACT MAX FUTURE ETD	1130	The maximum number of calendar days in advanced that a direct customer contract end date can be submitted
ADVANCE MDR APPOINTMENT CALENDAR DAYS	28	The maximum number of calendar days in advanced that a Meter Data Retriever Appointment can be submitted as part of a change of Service Provider Request.
SDS ADVANCE MDR	5	The maximum number of calendar days in advanced that a Meter Data Retriever

APPOINTMNT CALENDAR DAYS		Appointment can be submitted by the Data Service Provider
CHANGE OF MARKET SEGMENT GRACE DAYS	3	The maximum number of working days a SEG Appointment Request can be queued from the max(EFD, PUB-034 submission date) before being lapsed

4 ATTACHMENT 4 – REJECTION REASON CODES

Additional information supporting rejection reason codes produced by the MPRS application

The following information is provided to assist in the understanding of the reasons for rejections produced from MPRS validation. The table identifies for each Industry Code the different meanings applied by the MPRS application.

CODE	MEANING
1	Instruction Type not valid for the Data Transfer Catalogue Flow Type
3	MPAN Core not specified
3	Non numeric MPAN Core
3	Unknown Metering Point
3	MPAN Core is too long
5	Data Aggregator is not effective during the Data Aggregator appointment period
5	Data Aggregator invalid or unknown on specified date
6	Registration is not effective during the Data Aggregator appointment period
6	Appointment period conflicts with another Data Aggregator appointment for the same Registration
6	Data Aggregator appointment Effective From Date is not the same as the Registration Effective From Date for a default entry
6	Data Aggregator appointment Effective From Date is later than the Effective To Date
6	Invalid Data Aggregator appointment Effective From Date
6	Retrospective Change Period has been exceeded by the Data Aggregator appointment Effective From Date
6	Advance Change Period has been exceeded by the Data Aggregator appointment Effective From Date
7	Data Collector is not effective during the Data Collector appointment period
7	Data Collector invalid or unknown on specified date
8	Registration is not effective during the Data Collector appointment period
8	Advance Change Period has been exceeded by the Data Collector appointment Effective From Date
8	Retrospective Change Period has been exceeded by the Data Collector appointment Effective From Date
8	Invalid Data Collector appointment Effective From Date
8	Appointment period conflicts with another Data Collector appointment for the same Registration
8	Data Collector appointment Effective From Date is later than the Effective To Date
8	Data Collector appointment Effective From Date is not the same as the Registration Effective From Date for a default entry
9	Meter Operator is not effective during the Meter Operator appointment period
9	Meter Operator invalid or unknown on specified date

CODE	MEANING
10	Registration is not effective during the Meter Operator appointment period
10	Advance Change Period has been exceeded by the Meter Operator appointment Effective From Date
10	Retrospective Change Period has been exceeded by the Meter Operator appointment Effective From Date
10	Meter Operator appointment Effective From Date is not the same as the Registration Effective From Date for a default entry
10	Meter Operator appointment Effective From Date is later than the Effective To Date
10	Appointment period conflicts with another Meter Operator appointment for the same Registration
10	Invalid Meter Operator appointment Effective From Date
11	Meter Timeswitch Class invalid or unknown on specified date
11	Meter/Timeswitch Identifier must be numeric
11	MP Configuration Profile SSC is invalid with MPANs assigned MTC
12	The Registration is not effective on the Effective From Date of the new MP Meter Timeswitch Class
12	The new MP Meter Timeswitch Class date range falls outside of the Meter Timeswitch Class date range
12	The Advance Change Period has been exceeded by the Effective From Date for the new MP Meter Timeswitch Class
12	The date range conflicts with another MP Meter Timeswitch Class for the same Registration
12	The MP Meter Timeswitch Class Effective From Date must be the same as the Registration Effective From Date for a default entry
12	Invalid MP Timeswitch Class Effective From Date
12	Effective From Date is later than the Effective To Date for the new MP Meter Timeswitch Class
12	The Retrospective Change Period has been exceeded by the Effective From Date for the new MP Meter Timeswitch Class
13	Measurement Class invalid or unknown
14	The Advance Change Period has been exceeded by the Effective From Date for the new MP Measurement Class
14	The MP Measurement Class Effective From Date must be the same as the Registration Effective From Date for a default entry
14	Effective From Date is later than the Effective To Date for the new MP Measurement Class
14	The date range conflicts with another MP Measurement Class for the same Registration
14	The Retrospective Change Period has been exceeded by the Effective From Date for the new MP Measurement Class
14	Invalid MP Measurement Class Effective From Date
14	The Registration is not effective on the Effective From Date of the new MP Measurement Class
15	Standard Settlement Configuration/Profile Class combination invalid or unknown on specified date
15	Invalid Profile Class and/or Standard Settlement Configuration
15	MTC is invalid with MPANs assigned MP Configuration Profile SSC
16	If a MP Profile Class EFD and MP Configuration Profile EFD are both provided with a NHH Profile Class, they must be the same
16	The new MP Configuration Profile date range falls outside of the Settlement Configuration Profile Class date range

CODE	MEANING
16	The Advance Change Period has been exceeded by the Effective From Date for the new MP Configuration Profile
16	The Retrospective Change Period has been exceeded by the Effective From Date for the new MP Configuration Profile
16	The new MP Profile Class date range falls outside of the Profile Class date range
16	The Retrospective Change Period has been exceeded by the Effective From Date for the new MP Profile Class
16	Effective From Date is later than the Effective To Date for the new MP Profile Class
16	The MP Profile Class Effective From Date must be the same as the Registration Effective From Date for a default entry
16	Invalid MP Configuration Profile Effective From Date
16	Invalid MP Profile Class Effective From Date
16	The Registration is not effective on the Effective From Date of the new MP Configuration Profile
16	The date range conflicts with another MP Profile Class for the same Registration
16	The Advance Change Period has been exceeded by the Effective From Date for the new MP Profile Class
16	The Registration is not effective on the Effective From Date of the new MP Profile Class
16	The MP Configuration Profile Effective From Date must be the same as the Registration Effective From Date for a default entry
16	Effective From Date is later than the Effective To Date for the new MP Configuration Profile
16	The date range conflicts with another MP Configuration Profile for the same Registration
17	Energisation Status invalid or unknown
18	The Registration is not effective on the Effective From Date of the new MP Energisation Status
18	Effective From Date is later than the Effective To Date for the new MP Energisation Status
18	The MP Energisation Status Effective From Date must be the same as the Registration Effective From Date for a default entry
18	The Advance Change Period has been exceeded by the Effective From Date for the new MP Energisation Status
18	The Retrospective Change Period has been exceeded by the Effective From Date for the new MP Energisation Status
18	The date range conflicts with another MP Energisation Status for the same Registration
18	Invalid MP Energisation Status Effective From Date
19	Effective Date is after Advance Registration Period
19	Registration for Metering Point with this Effective From Date already exists
19	Registration dates overlap
19	Invalid Registration Effective From Date
19	Registration Effective From Date not specified
19	Supplier is Barred from Registrations
20	Supplier not effective for the specified date
20	Requesting Supplier is not the latest or previous Supplier

CODE	MEANING
20	Supplier has never been registered to Metering Point
20	Supplier not registered to Metering Point on date of Metering Point data change
22	Registration which is the subject of the instruction was not found
22	Old Registration not found
23	Metering Point is Disconnected so no changes are allowed
27	Old Registration not found
28	Registration within lockout period
31	MP Configuration Profile found for Half Hourly Measurement Class
31	Half Hourly Profile Class cannot be combined with a Standard Settlement Configuration
31	MP Configuration Profile must be defined with a Non Half Hourly Profile Class
31	MP Profile Class found for Non Half Hourly Measurement Class
32	There is a pending Registration
33	No MP Energisation Status found for Traded Metering Point
33	No Data Aggregator appointment found for Traded Metering Point
33	Attempt to define MP Energisation Status before full Metering Point Administration Data (which includes MP Line Loss Factor Class) is defined
34	There is no Line Loss Factor Class for the Metering Point on the Effective From Date of the Registration
34	The MP DUoS Tariff Id type must be general for the duration of a Non Half Hourly MP Measurement Class
35	Registration Transaction Number not provided
35	Registration Transaction Number incorrect
35	Transaction Registration Number and Registration Dates Are Incorrect
36	Profile Class invalid or unknown on specified date
36	Profile Class not numeric or unknown
37	Standard Settlement Configuration invalid or unknown on specified date
38	Attempt to define Data Aggregator appointment before full Metering Point Administration Data (which includes MP Line Loss Factor Class) is defined
38	Not all data provided for a new Data Aggregator appointment
38	Not all data provided for a new MP Profile Class
38	Not all data provided for a new MP Energisation Status
38	Not all data provided for a new Data Collector appointment
38	Not all data provided for a new MP Measurement Class
38	Not all data provided for a new Meter Operator appointment
38	Not all data provided for a new MP Configuration Profile

CODE	MEANING
38	Not all data provided for a new MP Timeswitch Class
38	Smart Meter Data Items received in D0205 Instruction prior to SM Go Live
38	No Smart Meter Data Items received in D0205 Instruction
38	SMSO ID specified without EFD
38	IHD Install Status specified without EFD
38	SMSO EFD specified without SMSO ID
38	IHDI EFD specified without IHDI Status
38	Too many fields received in instruction
38	Too few fields received in instruction
38	Not all data provided for SMETS
39	Measurement Class conflicts with Data Aggregator type
39	Measurement Class conflicts with Meter Operator type
39	Measurement Class conflicts with Data Collector type
45	Already supplying to this metering point
46	Invalid value for Change Of Tenancy Indicator
49	Supplier not a Green Deal Licensee
50	SMSO ID Invalid
50	SMSO ID Invalid (must be DCC MPID)
50	SMSO ID Invalid (MPID Cancelled)
51	SMSO ID Date Invalid
51	SMSO ID Date Invalid (non-latest)
51	SMSO ID Date is before Registration EFD
51	SMSO ID Date before or after SMSO is effective
51	The SMSO ID EFD cannot be a future date
51	The Retrospective change period has been exceeded by the Smart Meter System Operator effective from date
51	Effective from date is greater than the Effective to date for the new MP Smart Meter System Operator
52	IHD Install Status Invalid
53	IHD Install Status Date Invalid
53	IHD Install Status Date is prior to SM go-live
53	IHD Install Status Date Invalid (non- latest)
53	The IHD Install Status EFD cannot be a future date

CODE	MEANING
53	IHD Install Status Date Invalid (non-latest)
53	The retrospective change period has been exceeded by the effective from date for the new MP IHD Install Status
53	Effective from date is greater than the Effective to date for the new MP IHD Install Status
54	SMETS Version Invalid
54	Retrospective change period has been exceeded by the SMETS Version effective from date
54	Attempting to process a non-latest data item for MP SMETS Version
54	Effective from date is greater than the Effective to date for the new MP SMETS Version
54	SMETS ID Date before or after SMETS is effective
54	SMETS ID Date is before Registration EFD
54	SMETS Version is flagged for deletion
54	SMETS Version Date cannot be a future date
57	Invalid UPRN (exceeds maximum field size)
59	Supplier is not the supplier of the new registration
62	MHHS Migration in progress or MPAN is MHHS

4.1 D0304 Validation

Response Code & Message	Validation
C (Rejected - Meter Asset Provider ID not specified)	Meter Asset Provider must be specified
B (Rejected - Meter Asset Provider ID is invalid or unknown on Effective from Date {MAPA}	Specified Meter Asset Provider must exist as a non-cancelled entry within the METER_ASSET_PROVIDERS table with a MAP.EFD =< Effective From Date {MAPA} and MAP.ETD >= MPRS System Date
D (Rejected - Effective from Date {MAPA} invalid)	Effective From Date {MAPA} must be a valid date format / value
E (Rejected - Effective from Date {MAPA} in the future)	Effective From Date {MAPA} must not be in the future
H - Rejected - MPAN Core is disconnected	Effective From Date must be on or before the MPRS Date of Disconnection
F (Rejected - MPAN Core is not recognised)	MPAN Core must exist in MPRS
G (Rejected – No Supplier registered to MPAN on Effective from Date {MAPA})	A supplier must be registered to the MPAN as at Effective from Date {MAPA}

Response Code & Message	Validation
H (Rejected - MPAN Core is disconnected)	MPAN Core must not be disconnected at Effective from Date {MAPA}
I (Rejected - Meter Id (Serial Number) not recognised on specified MPAN Core)	Must exist within the portfolio of the specified MPAN
J (Rejected - Meter Id (Serial Number) is not specified)	Must be provided
I (Rejected - Meter Id (Serial Number) not recognised on specified MPAN Core)	Must be maximum of 10 chars
K (Rejected - Meter Id (Serial Number) is not unique within the MPAN)	Unique within MPAN
L (Rejected - Sending MOP is not the appointed MOP on date of MAP appointment or the current MOP)	The sender MPID must match the current MOP or the sender MPID must match the previous MOP and the ETD of the MOP must be on or after the Effective From Date {MAPA}
M (Rejected - No MOP appointed to MPAN on date of MAP appointment)	A MOP is assigned to the MPAN as at the Effective from Date {MAPA}
N (Rejected – Effective From Date {MAPA} not specified)	Effective from Date {MAPA} must be specified
O (Rejected – MPAN Core not specified)	MPAN Core must be specified
P (Rejected – Effective From Date {MAPA} prior to current MAP Effective From Date)	Effective from Date {MAPA} must be >= existing MAP EFD
Q (Rejected - MHHS Migration in progress or MPAN is MHHS for MPAN <MPAN Core>)	Specified MPAN must not be at MHHS Status of ‘MHHS New Connection’, ‘MHHS Migrated’ or ‘Pending MHHS’

4.2 D0312 Validation

Response Code & Message	Validation
E (Rejected – The MPAN is not recognised)	The specified MPAN must exist within MPRS
C (Rejected – The MPAN is disconnected on date of meter work)	MPAN must not be disconnected before the Date of Meter Work (Installation Date) THIS APPLIES TO 12D ROWS ONLY – Meter Removals after the Disconnection Date are allowed.
B (Rejected – The Installation Date is in the future)	Must not be a future date
D (Rejected – No Supplier registered to MPAN on	A supplier registration must be active as at the Installation Date

Response Code & Message	Validation
date of meter work)	
G (Rejected - Meter Type is invalid)	Must exist in the valid list
H (Rejected - Meter Asset Provider ID is invalid or unknown on date of meter work)	Must exist as a valid active MAP in the METER_ASSET_PROVIDERS table
I (Rejected - Sending MOP is not the appointed MOP on date of meter work or the current MOP)	The sender MPID must match the current MOP or the sender MPID must match the previous MOP and the ETD of the MOP must be on or after the Installation Date
J (Rejected - No MOP appointed to MPAN on date of meter work)	A MOP is assigned to the MPAN as at the Installation Date
K (Rejected - Meter ID not specified)	12D Meter Id must be specified
K (Rejected - Meter ID not specified)	13D Meter Id must be specified
U (Rejected - Meter Id (Serial Number) is not unique with the MPAN)	The same Meter Id must not be specified in both 12D and 13D groups
F (Rejected – The removal date is before the installation date)	Must be equal to or after the installation date
L (Rejected - Meter ID is too long)	Meter Id must be a maximum of 10 characters
U (Rejected - Meter Id (Serial Number) is not unique with the MPAN)	Meter Id must be unique within the 12D group (This will be checked using the cleansed MSN)
L (Rejected - Meter ID is too long)	Meter Id must be a maximum of 10 characters
U (Rejected - Meter Id (Serial Number) is not unique with the MPAN)	Meter Id must be unique within the 13D group (This will be checked using the cleansed MSN)
M (Rejected - Meter Type is not specified)	Meter Type must be specified
N (Rejected - The installation date is invalid)	The Installation Date is a valid date format / value
P (Rejected - The removal date is not specified)	Removal Date must be specified
Q (Rejected - The removal date is invalid)	Removal Date must be a valid date format / value
R (Rejected - The removal date is in the future)	Must not be a future date
I (Rejected - Sending MOP is not the appointed MOP on date of meter work or the current MOP)	When no 12D row is provided (i.e. All meters to be removed) the sender MPID must match the current MOP or the sender MPID must match the previous MOP and the ETD of the MOP must be on or after the

Response Code & Message	Validation
	Removal Date
S (Rejected - Meter Asset Provider ID not specified)	Meter Asset Provider must be specified
S (Rejected - Meter Asset Provider ID not specified)	Meter Asset Provider must be specified
T (Rejected - The installation date is not specified)	The Installation Date must be specified
K (Rejected - Meter Id (Serial Number) is not associated with the MPAN)	Meter Id must be associated to the MPAN
AA (Rejected - Meter Location is invalid)	If specified, must be a valid code as per the Valid Set
AA (Rejected - Meter Location is invalid)	If the provided MSN is not recognised (i.e. it is a new meter) and the Meter Type is smart the Meter Location must be specified
AA (Rejected - Meter Location is invalid)	If the Meter Type is not smart the Meter Location must NOT be specified
X (Rejected – EMSE ID Format is Invalid)	If specified, must be a valid format, which is: XX-XX-XX-XX-XX-XX-XX-XX (0-9, A-Z)
V (Rejected – ESME ID already live in MPRS on an Installed Meter MSN <MSN> for MPAN <MPAN>)	When specified, must be unique to this meter across all active installed meters in MPRS, excluding active related MPANs and active associated MPANs or where the value is specified as '00-00-00-00-00-00-00-00'
AB (Rejected – Non-Smart Meter Type with ESME ID populated)	If specified, the Meter Type must be a Smart Meter, i.e. one of those defined below, or prefixed with "S1", "S2" or "2".
W (Rejected - MSN relates to a Smart Meter Type and the ESME ID is NULL)	When not specified the Meter Type must not be a Smart Meter, i.e. one of those defined below, or prefixed with "S1", "S2" or"2".
AC (Rejected – Number of Displayed Register Digits is incorrect)	If specified, must be a positive integer value of either 5 or 6
Y (Rejected – Number of Displayed Register Digits is NULL and the MSN relates to a Smart Meter Type)	Must be specified for a new meter (i.e. the MSN is not already at this MPAN) when the Meter Type is Smart
Z (Rejected – Non-Smart Meter Type with Number of Displayed Register Digits populated)	Must not be specified when the Meter Type is non-Smart
AC (Rejected – Number of Displayed Register Digits is incorrect	Where the Meter Type is S1, the value should be populated as per the manufacturer specification. Where the Meter Type is S2A, S2AD, S2ADE, 2ADF, 2ADEF, 2AEF, 2AF, S2B, S2BD, or S2BDE, 2BF, 2BDF, 2BDEF or 2BEF the value must be "5".

Response Code & Message	Validation
	Where the Meter Type is prefixed with “S2C” the value must be “6”. Where the Meter Type is 2CDEF, 2CF, 2CDF or 2CEF the value must be “6”.
AD (Rejected) MHHS Migration in progress or MPAN is MHHS	Specified MPAN must not be at MHHS Status of ‘MHHS New Connection’, ‘MHHS Migrated’ or ‘Pending MHHS’

4.3 D0386 Validation

Response Code & Message	Validation
T (Rejected – Primary MPAN not specified)	Primary MPAN must be specified
D (Rejected – Unknown Primary MPAN)	MPAN Core must exist in MPRS
G (Rejected – Primary MPAN is Disconnected)	When the Relationship Action is ‘C’ or ‘A’ the MPAN Core must not be disconnected
F (Rejected – Request not from current Supplier of all MPANs)	Source MPID must be the current Supplier for the Primary MPAN
B (Rejected – Relation Action is ‘C’ and Primary MPAN is in another relationship)	Primary MPAN must not be in a relationship when Relationship Action is ‘C’ (Create) No entry must exist in the V_MPAN_RELATED_LIST view where the RELATIONSHIP _X_ETD is NULL
K (Rejected –Primary MPAN is not in a relationship)	Primary MPAN must be in a relationship when Relationship Action is ‘A’ (Amend) or ‘D’ Delete An entry must exist in the MP_PRIMARY_RELATIONSHIP table where the MPPR_EFFECTIVE_TO_DATE is NULL
V (Rejected – Relationship Action not specified)	Must be specified
I (Rejected – Relationship Action not in valid set)	Must be a valid value from defined set, i.e. Exist as an ACTION_CODE in the V_RELATIONSHIP_ACTION view.
M (Rejected – Relationship Action is ‘D’ and all Secondary MPANs have not been specified)	When Relationship Action is ‘D’ all active Secondary MPANs held in MPRS must be specified. All MPANs referenced by the associated entries in the MP_SECONDARY_RELATIONSHIP table where the MPSR_EFFECTIVE_TO_DATE is NULL must have a corresponding ‘19M’ Group row.
N (Rejected – Relationship Action is ‘A’ and all Secondary MPANs have not been specified)	When Relationship Action is ‘A’ all active Secondary MPANs held in MPRS must be specified. All MPANs referenced by the associated entries in the MP_SECONDARY_RELATIONSHIP table where the MPSR_EFFECTIVE_TO_DATE is NULL must have a corresponding ‘19M’ Group row.
Q (Rejected – Relationship Action is ‘C’ and no Secondary MPANs have been specified) (This would actually result in the file being	When Relationship Action is ‘C’ at least 1 ‘19M’ Group record must be specified

Response Code & Message	Validation
rejected as the DTN defines that the '19M' Group is mandatory)	
S (Rejected – Relationship Action is 'A' and all MPAN Actions are 'D')	When Relationship Action is 'A' (Amend) ALL specified MPAN Actions must not be 'D' (Delete)
X (Rejected – Instruction Number not specified)	Must be specified
R (Rejected – Instruction Number format is invalid)	Must be a number of 12 or less digits
U (Rejected – Secondary MPAN not specified)	Secondary MPAN must be specified
E (Rejected – Unknown Secondary MPAN)	MPAN Core must exist in MPRS
H (Rejected – Secondary MPAN is Disconnected)	When the MPAN Action is 'A' or 'C' the MPAN Core must not be disconnected
C (Rejected – Secondary MPAN is in another relationship)	MPAN Core must not be in another relationship. When the MPAN Action is 'C' or 'D' the MPAN referenced must not have a row in the V_MPAN_RELATED_LIST view where the RELATIONSHIP _ETD is null and the parent MPAN differs from the 18M.Primary MPAN. When the MPAN Action is 'A' (Add) then the MPAN referenced must not have a row in the V_MPAN_RELATED_LIST view where the RELATIONSHIP _ETD is NULL (irrespective of the Primary MPAN)
C (Rejected – Secondary MPAN is in another relationship)	The '19M' rows within a '18M' instruction can only have 1 occurrence of any MPAN Core specified
C (Rejected – Secondary MPAN is in another relationship)	MPAN Core must not be the same as the 18M.Primary MPAN
L (Rejected – Secondary MPAN is not in a relationship)	MPAN Core must be related to the Primary MPAN when Relationship Action is 'A' (Amend) or 'D' (Delete), unless the MPAN Action = 'A'. The MPAN referenced must have a row in the MP_SECONDARY_RELATIONSHIP table where the MPSR_EFFECTIVE_TO_DATE is NULL and the parent MPAN = 18M.Primary MPAN.
F (Rejected – Request not from current Supplier of all MPANs)	When the Relationship Action is 'C' or 'A' the source MPID must be the current Supplier for the Secondary MPAN When the Relationship Action is 'D' or Relationship Action is A and MPAN Action is D the current Supplier of the Primary MPAN can delete a secondary MPANs supplied by other suppliers when the 'primary_supplier_can_delete_broken_relationships' system variable is set to 'YES'
W (Rejected – MPAN Action not specified)	MPAN Action must be specified
J (Rejected –MPAN Action not in valid set)	MPAN Action must be a valid value from defined set.

Response Code & Message	Validation
	i.e. Exist as an ACTION_CODE in the V_MPAN_ACTION view
P (Rejected – Relationship Action is 'C' and MPAN Action is not 'A')	When Relationship Action is 'C' (Create) MPAN Action must be 'A' (Add)
M (Rejected) – Relationship Action is 'D' and all Secondary MPANs have not been specified)	When Relationship Action is 'D' (Delete) MPAN Action must be 'D' (Delete) (Not currently defined as a validation rule by industry)
Y (Rejected) – MHHS Migration in progress or MPAN is MHHS for MPAN <Primary/Secondary MPAN>	Specified MPAN must not be at MHHS Status of 'MHHS New Connection', 'MHHS Migrated', 'Pending MHHS' or 'Pending Legacy'

4.4 PUB-005 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

4.4.1 All Event Codes

Response Code & Message	Validation
REG1001 - MPAN <MPAN core>is at <Status> not status Created/Operational	MPAN must not be disconnected unless eventCode = [MeterRemoval]
REG9003 – MHHS MTD Updates cannot be used until Migration has completed	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'

4.4.2 Event Codes [MeterInstall], [MeterExchange], [MeterUpdate], [MeterHistoryUpdate]

Response Code & Message	Validation
REG1006 – Meter ID already installed for MPAN	meterID must be unique at MPAN at any given point in time (The same Meter ID can be re-used as long Installation and Removal Dates are non-overlapping)
REG1049 – Meter Type is not consistent with ISD	meterType must be a valid type as defined by the Meter Types domain
REG1046 – ESME ID must not be null for Smart Meter Types	ESMEGUID must be specified for Smart Meters
REG1046 - ESME ID must be null for non-Smart Meter Types	ESMEGUID must be null for non-Smart Meters
REG1046 – ESME ID is invalid	ESMEGUID must be correct format (XX-XX-XX-XX-XX-XX-XX-XX)

REG1046 – ESME ID already exists for MPAN [MPAN] and Meter ID [Meter ID]	ESME GUID must be unique for Active (installed) meters in MPRS (unless assigned to an associated or related MPAN, which is valid)
REG1048 Meter Location is invalid	Meter Location must be a valid type as defined by the Meter Location domain
REG1047 – Number of Displayed Register Digits must not be null for Smart Meter Types	numberOfDisplayedRegisterDigits must be specified for SMART Meters
REG1097 – Number of Displayed Register Digits must be null for non-Smart Meter Types	numberOfDisplayedRegisterDigits must be null for non-SMART Meters
REG1097 - Number of Displayed Register Digits not compatible with Meter Type	numberOfDisplayedRegisterDigits must be correct for Meter Type Where the Meter Type is S1 the Number of Displayed Register Digits value must be in the range from 0-9 Where the Meter Type is S2A, S2AD, S2ADE, 2ADF, 2ADEF, 2AEF, 2AF, S2B, S2BD, S2BDE, 2BF,2BDF, 2BDEF or 2BEF the value must be “5”. Where the Meter Type is prefixed with “S2C” the value must be “6”. Where the Meter Type is 2CDEF, 2CF, 2CDF or 2CEF the value must be “6”
REG1020 - Meter Installation Date cannot be set in the future	meterInstallationDate must not be future dated
REG1011 - Installation Date for Meter ID is prior to MPAN Creation Date [MPAN Creation Date]	meterInstallationDate must be >= MPAN Creation Date
REG1014 – Only one MAP can be updated in a single message	meterAssetProviderID only 1 MAP history record can be provided
REG1009 – MAP ID is not valid for MAP Effective from Date	meterAssetProviderID must be a valid MAP as detailed in ISD
REG1020 – MAP Effective from Date cannot be set in future	meterAssetProviderEffectiveFromDate cannot be > MPRS System Date
REG1010 – MAP Effective from Date is prior to Meter Installation Date [Installation Date]	meterAssetProviderEffectiveFromDate must be >= meterInstallationDate
REG1014 – MAP EFD cannot be after Meter Removal Date [removal date]	meterAssetProviderEffectiveFromDate must be =< meterRemovalDate
REG1048 – Meter Location cannot be reverted to F	meterLocation must not be reverted to Not Known (‘F’) from another existing value, when the ‘allow_not_known_meter_location’ system variable is set to ‘NO’

4.4.3 Event Codes [MeterRemoval], [MeterExchange], [MeterUpdate], [MeterHistoryUpdate]

Response Code & Message	**Validation**
REG1020 - Meter Removal Date cannot be set in the future	meterRemovalDate must not be future dated
REG1005 –Meter Removal Date cannot be prior to current Meter Installation Date [Installation Date]	meterRemovalDate must not be earlier than the Meter’s Installation Date

4.4.4 Event Codes [MeterInstall], [MeterRemoval], [MeterExchange]

Response Code & Message	Validation
(For 1 and 2) REG1027 - Metering Service is not currently appointed and does not hold a Prospective SEG Appointment (For 3 and 4) REG1003 - Metering Service post appointment update period for MPAN has expired	senderDIPID must be either: 1. Currently appointed Metering Service, or 2. Prospective Metering Service (Status 'Pending') with Appointment Scenario 'SEG', or 3. A previous Metering Service where the ETD is >= (MPRS System Date - 'MHHS END DATED MS MTD UPDATE DAYS' TP) and the MPAN is not De-registered, or 4. The previous Metering Service where the MPAN is De-registered

4.4.5 Event Codes [MeterInstall] and [MeterExchange]

Response Code & Message	Validation
REG1029 - Modified Meter ID Must be null	modifiedMeterID must not be specified
REG1019: Meter Installation Date must be within Metering Service Period of Ownership EFD [MS EFD] to ETD [MS ETD/null]	meterInstallationDate must fall within the sending Metering Service appointment period (or proposed appointment period for 'SEG' scenario)
REG1010 - MAP Effective from Date must equal the Meter Installation Date [Installation Date]	meterAssetProviderEffectiveFromDate must be = meterInstallationDate

4.4.6 Event Codes [MeterInstall], [MeterExchange] and [MeterUpdate]

Response Code & Message	Validation
REG1020 - IHD Effective from Date cannot be set in the future	IHDEffectiveFromDate must not be future dated
REG1096 IHD Effective from Date cannot be prior to the Meter Installation Date [Installation Date]	IHDEffectiveFromDate must be >= meterInstallationDate
REG1019 - IHD Effective From Date cannot be prior to SSD [current SSD]	IHDEffectiveFromDate must be >= SSD
REG1019 - IHD Effective from Date must be greater than the latest IHD Effective from Date [current IHD EFD]	IHDEffectiveFromDate must be > current IHD Status EFD held in MPRS

4.4.7 Event Codes [MeterRemoval] and [MeterExchange]

Response Code & Message	Validation
REG1004 - Meter does not match currently installed Meter ID's [list Meter Ids installed at MPAN]	meterIDRemoved must currently be installed against the MPAN
REG1028 – Meter Removal Date cannot be null	meterRemovalDate must be specified
REG1019: Meter Removal Date must be within Metering Service Period of	meterRemovalDate must fall within the sending Metering Service appointment

Ownership of EFD [MS EFD] to ETD [MS ETD/null]	period (or proposed appointment period for 'SEG' scenario)

4.4.8 Event Codes [MeterUpdate] and [MeterHistoryUpdate]

Response Code & Message	Validation
REG1013- Modified Meter ID already installed for MPAN	modifiedMeterID must be unique and not = an existing installed Meter (for the MPAN)
REG1017 - Meter ID and Meter Installation/Removal Date cannot be updated in the same transaction	meterInstallationDate must be = existing Meter Installation Date when modifiedMeterID is specified AND B039 must not be included if modifiedMeterID is not null
REG1014 - MAP Effective From Date must not be prior to current MAP Effective From Date [MAP EFD]	meterAssetProviderEffectiveFromDate must be >= existing MAP EFD, if one exists in MPRS
REG1016 - Install/Update Meter ID should match Removed Meter ID	If B039 included then meterIDRemoved must match B906.existingMeter.meterID

4.4.9 Event Code [MeterExchange]

Response Code & Message	Validation
REG1008 - Installation Date for new Meter is prior to Removal Date for removed Meter	meterInstallationDate must be >= meterRemovalDate

4.4.10 Event Code [MeterUpdate]

Response Code & Message	Validation
(For 1) REG1012 - Metering Service does not hold current appointment for MPAN (For 2) REG1003 - Metering Service post appointment update period for MPAN has expired	Must be either: 1. Currently appointed Metering Service, or 2. A previous Metering Service where the ETD is >= (MPRS System Date - 'MHHS END DATED MS MTD UPDATE DAYS' TP) and the MPAN is not De-registered
REG0008 - Amendment Requested cannot be undertaken by Previous Metering Service	Previous Metering Service can only update Meter Location. The history MAP block, B039 removal block and B030 IHD info block must not be included in the message. modifiedMeterID must be null. meterType, manufacturersMakeAndType, ESMEGUID, numberOfDisplayedRegisterDigits

	and meterInstallationDate MUST match existing values.
REG1015 - Meter ID cannot be updated as it does not exist/or is not active at MPAN	Meter ID must exist in MPRS as an installed meter
REG1028 – Meter Removal Date cannot be null	If B039 is specified, the removal date must be specified
REG1020 – for [MeterUpdate] event code Meter Removal Date cannot take place in current period of ownership. Use event code [MeterRemoval] for this action	If B039 is specified, must be < submitting Metering Service EFD

4.4.11 Event Code [MeterHistoryUpdate]

Response Code & Message	**Validation**
REG1012 - Metering Service does not hold current appointment for MPAN	SenderDIPID must be the currently appointed Metering Service
REG1018 - Cannot use [MeterHistoryUpdate] to amend installed meter.	Meter ID must not exist in MPRS, as an installed meter
REG1029 - Modified Meter ID must be null	modifiedMeterID must not be specified when installing a new meter
REG1028 – Meter Installation Date cannot be within current period of ownership when installing meter for event code [MeterHistoryUpdate] – use [MeterInstall]	meterInstallationDate, when meterID does not exist for the MPAN as either installed or removed, must be prior to submitting Metering Service EFD
REG1014 - MAP must be provided	historyMAP must be specified when installing a new meter
REG1010 - MAP Effective from Date must equal the Meter Installation Date	meterAssetProviderEffectiveFromDate must be = meterInstallationDate when installing a new meter

4.5 PUB-007 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

Response Code & Message	**Validation**
REG1002 - Metering Service does not hold valid appointment for MPAN on Energisation Status Effective from Date	Specified MPID must be the current Metering Service or must have held an appointment on the Energisation Status EFD.
REG1003 - Metering Service post appointment update period for MPAN has expired	Where the Metering Service is the previous Metering Service, the MPRS System Date must not be greater than (MS ETD + 'SP APPOINTMENT UPDATE DAYS' Trading Parameter).
REG1001 - MPAN is not at RMP Status Operational	(Energisation) Specified MPAN must be at status of Operational / Traded
REG1001 - MPAN is not at RMP Status Operational or Terminated	(De-energisation) Specified MPAN must be at status of Operational / Traded or Disconnected / Terminated
REG1020 – Energisation Status Effective from Date cannot be set in the	EFD must <= Entry Date

future	
REG1019 - Energisation Effective from Date must be within Metering Service Period of Ownership EFD [MS EFD] to ETD [MS ETD/null]	EFD must be within the submitting Metering Service EFD and ETD dates
REG1014 - Energisation Effective from Date is prior to existing Energisation Status Effective from Date [Current Status EFD]	EFD must be >= current Energisation Status EFD held
REG9002 - Supplier Data Items cannot be Maintained for an Unmigrated MPAN	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'
REG1014 - The final reconciliation date for proposed Energisation Status Effective From Date has already passed	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed Energisation Status EFD

4.6 PUB-019 Validation (Related MPANs)

Messages which are structurally invalid will be rejected with level 4 validation.

4.6.1 All Event Codes

Response Code & Message	Validation
REG1060 – Supplier must have ownership of all MPANs within the Relationship	Submitting Supplier must be the currently appointed Suppler for both the Primary and Secondary MPANs
REG0007 – Cannot manage MPAN Relationship during a Switch	There must not be a Pending registration for the Primary or Secondary MPAN
REG1059 – MPAN(s) cannot be duplicated within the same message	Primary MPAN must not also be a Secondary MPAN in the same IF-019 message AND Secondary MPANs cannot be repeated
REG9010 – Cannot Manage MPAN Relationships for an Unmigrated MPAN	Primary and Secondary MPANs must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'

4.6.2 Event Codes [RelatedCreate] and [RelatedAdd]

Response Code & Message	Validation
REG1001 - MPAN <MPAN> is at Disconnected/Terminated not status Created/Operational	Primary and Secondary MPANs must not be disconnected
REG1067 – Only Import MPANs can be Related. MPAN <Principal MPAN> has an Energy Direction of Export.	Primary MPAN must have Energy Direction of Import.
REG1067 – Only Import MPANs can be Related. MPAN <Subsidiary MPAN> has an Energy Direction of Export.	Secondary MPAN must have Energy Direction of Import

REG1051 – Unmetered MPAN < Principal MPAN> cannot be part of an MPAN relationship	Primary MPAN must not have a Connection Type of U (Unmetered)
REG1051 – Unmetered MPAN < Subsidiary MPAN> cannot be part of an MPAN relationship	Secondary MPAN must not have a Connection Type of U (Unmetered)

4.6.3 Event Code [RelatedCreate]

Response Code & Message	Validation
REG1061 – Proposed Principal MPAN is already part of a Related MPAN Relationship with <List of existing secondary MPANs >	Primary MPAN must not already be in an existing MPAN Relationship.
REG1061 – Proposed Subsidiary MPAN is already part of a Related MPAN Relationship with Primary MPAN <Primary MPAN>	Secondary MPAN must not already be in an existing MPAN Relationship

4.6.4 Event Code [RelatedAdd]

Response Code & Message	Validation
REG1062 – Proposed Primary MPAN is not the Primary MPAN in an existing Relationship	Primary MPAN must be the Primary MPAN in an existing relationship
REG1063 – Proposed Secondary MPAN <subsidiaryMPAN> is already in an MPAN Relationship with the Primary MPAN	Secondary MPAN must not already be related to the proposed Primary MPAN.
REG1064 – Proposed Secondary MPAN <Secondary MPAN> is already part of a different MPAN Relationship with Primary MPAN <Primary MPAN>	Secondary MPAN must not be related to a different Primary MPAN.
REG1064 – Proposed Secondary MPAN <Secondary MPAN> is already in an MPAN relationship as a Primary MPAN with Secondary MPANs <Listed secondary MPANs>	Secondary MPAN must not be a Primary in another Relationship

4.6.5 Event Code [RelatedRemove]

Response Code & Message	Validation
REG1062 – Proposed Primary MPAN is not the Primary MPAN in an existing Relationship	Primary MPAN must be in an existing relationship as a Primary MPAN
REG1065 – Secondary MPAN <Secondary MPAN> is not in a Relationship with the Primary MPAN	Secondary MPAN must be in a Relationship with the primary MPAN

4.7 DB05 Validation (LDSO Generates DB05 in Response to IF-019 Association Changes)

4.7.1 All Event Codes

Response Code & Message	Validation
REG0007 - Cannot manage MPAN Association during a Switch	Import MPAN Core and Export MPAN Core must not have a Pending Registration (either initial or Cos)

4.7.2 Event Code [LinkedImportExportCreate]

Response Code & Message	Validation
REG1001 - MPAN <MPAN Core> is at Disconnected/Terminated not status Created/Operational	Import MPAN Core must not be Disconnected
REG1053 - Proposed Principal MPAN <MPAN Core> in Import/Export Association must be Import	Import MPAN Core must have Metering Point Energy Direction of Import
REG1052- MPAN <MPAN Core> already part of an Import/Export Association	Import MPAN must not be associated to any Export MPAN(s)

4.7.3 Event Code [LinkedImportExportRemove]

Response Code & Message	Validation
REG1058 - Proposed Subsidiary MPAN <Export MPAN> is not currently part of an Import/Export Association	Export MPAN must have an existing association to the specified Import MPAN

4.7.4 Event Codes [LinkedImportExportAdd] and [LinkedImportExportCreate]

Response Code & Message	Validation
REG1051 - Unmetered MPANs <MPANs> cannot be part of an MPAN Association	Import MPAN and Export MPAN must not have a Connection Type of 'U'
REG1052 – MPANs <MPANs> already part of an Import/Export Association	Export MPAN must not be associated to any Import MPAN(s)
REG1001 - MPAN <MPAN Core> is at Disconnected/Terminated not status Created/Operational	Export MPAN must not be Disconnected
REG1054 - Proposed Subsidiary MPAN(s) <MPAN Core> in Import/Export Association must be Export	Export MPAN Core must have Metering Point Energy Direction of Export

4.8 PUB-025 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

4.8.1 All Event Codes

Response Code & Message	Validation
REG1021 - Supplier is not the Current Supplier for MPAN	senderMPID must be the current Supplier
REG1001 - MPAN is at Disconnected/Terminated not status Created/Operational	Specified MPAN Core must not be disconnected
REG0005 - CSS Registration ID <CSS Request ID> is invalid or Unknown	CSSRegistrationID must be a valid value for the MPAN and Submitting Supplier (S1.senderDIPID)
REG0005 – CSS Registration ID is not the currently active registration	CSSRegistrationID must equal the Registration ID of the current Supplier
REG9002 – Supplier Data Items Cannot be Maintained for an Unmigrated MPAN	Specified MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'

4.8.2 Event Code [ConsentGranularity]

Response Code & Message	Validation
REG1022 – Consent Granularity <Proposed Consent Granularity>, Domestic Premises Indicator <Proposed Domestic Indicator>, Energy Direction <MPAN Energy Direction> and Market Segment <MPAN Market Segment> combination is invalid	consentGranularity must be a valid combination with Energy Direction Indicator, Domestic Premise Indicator, Market Segment, Meter Category and Meter Group as detailed in ISD
REG1020 – Consent Granularity Effective from Date cannot be set more than [Advanced Parameter] Days in advance.	consentGranularityEffectiveFromDate must not exceed the MHHS ADVANCED CHANGE DAYS Trading Parameter beyond the system date
REG1024 – Consent Granularity Effective from Date cannot be set more than [Retrospective Parameter] days retrospectively	consentGranularityEffectiveFromDate must be greater than the entry date - MHHS RETROSPECTIVE CHANGE DAYS Trading Parameter
REG1019 – Consent Granularity Effective from Date must be within Suppliers period of ownership	consentGranularityEffectiveFromDate must be within the Supplier Registration EFD and ETD dates
REG1019 – Consent Granularity Effective from Date must be greater than Last Updated Date [Current CG EFD]	consentGranularityEffectiveFromDate must be > current CG EFD held

4.8.3 Event Code [IHDInfo]

Response Code & Message	Validation
REG1022 - IHD Status cannot be set where Market Segment is not Smart	IHDInstallStatus must be null when Market Segment is not Smart
REG1020 – IHD Effective from Date cannot be set in the future	IHDEffectiveFromDate must <= Entry Date
REG1019 – IHD Effective from Date must be within Suppliers period of	IHDEffectiveFromDate must be within the Supplier Registration EFD and ETD

ownership	dates
REG1019 - IHD Effective from Date must be greater than the latest IHD Effective from Date [current IHD EFD]	IHDEffectiveFromDate must be > current IHD EFD held
REG0009 – IHD Status cannot be set to null as the value held is already null	When the proposed IHDInstallStatus property is null and the IHDEffectiveFromDate property is populated, there must be an existing active IHD Status for the MPAN

4.8.4 Event Code [SMSO]

Response Code & Message	**Validation**
REG1022 – SMSO ID cannot be set where Market Segment is not Smart	SMSO ID must be null when the Market Segment is not Smart
REG1023 - SMSO ID is not valid on Effective from Date	Must be a valid SMSO
REG1020 – SMSO Effective from Date cannot be set in the future	SMSOEffectiveFromDate must <= Entry Date
REG1024 – SMSO Effective from Date cannot be set more than [Retrospective Parameter] days retrospectively	SMSOEffectiveFromDate must be greater than the entry date -MHHS RETROSPECTIVE CHANGE DAYS Trading Parameter
REG1019 – SMSO Effective from Date must be within Suppliers period of ownership	SMSOEffectiveFromDate must be within the Supplier Registration EFD and ETD dates
REG1019 - SMSO Effective from Date must be greater than the latest SMSO Effective from Date [current SMSO EFD]	SMSOEffectiveFromDate must be > current SMSO EFD held
REG0009 – SMSO cannot be set to null as the value held is already null	When the SMSOID property is null and the SMSOEffectiveFromDate property is populated there must be an existing active SMSO for the MPAN

4.8.5 Event Code [SSCandProfileClass]

Response Code & Message	**Validation**
REG1043 - Profile Class cannot be set to Null when installed Meter Type is in Group Traditional	profileClass must be provided when at least 1 Meter installed of type ‘TRAD’ and the profileClassEffectiveFromDate is specified
REG1045 - PC must be a valid value	profileClass must be a valid value between 01-08 or 1-8
REG1088 – profileClassEffectiveFromDate is missing	profileClassEffectiveFromDate must be provided when profileClass is specified
REG1020 – Profile Class Effective from Date cannot be set in the future	profileClassEffectiveFromDate must <= Entry Date
REG1019 – Profile Class Effective from Date cannot be prior to SSD [Current SSD]	profileClassEffectiveFromDate must be >= Reg EFD
REG1040 - Profile Class Effective from Date must be greater than latest PC Effective from Date [Current PC EFD]	profileClassEffectiveFromDate must be > current PC EFD held

REG0009 – Profile Class cannot be set to null as the value held is already null	When the profileClass property is null and the profileClassEffectiveFromDate property is populated there must be an existing active Profile Class for the MPAN
REG1019 – Profile Class Effective From Date cannot be prior to the MPAN MHHS Migration Date	profileClassEffectiveFromDate must not be prior to the MPAN MHHS Migration Date
REG1042 SSC cannot be set to Null when installed Meter Type is in Group Traditional	SSC must be provided when at least 1 Meter installed of type 'TRAD' and the SSCEffectiveFromDate has been specified
REG1044 - SSC must be a valid value	SSC must be a valid value between 0000-9999
REG1088 – SSCEffectiveFromDate is missing	SSCEffectiveFromDate must be provided when SSC specified
REG1020 – SSC Effective from Date cannot be set in the future	SSCEffectiveFromDate must <= Entry Date
REG1019 – SSC Effective from Date cannot be prior to SSD [Current SSD]	SSCEffectiveFromDate must be >= Reg EFD
REG1040 - SSC Effective from Date must be greater than latest SSC Effective from Date [Current SSC EFD]	SSCEffectiveFromDate must be > current SSC EFD held
REG0009 – SSC cannot be set to null as the value held is already null	When the SSC property is null and the SSCEffectiveFromDate property is populated there must be an existing active SSC for the MPAN
REG1019 –SSC Effective From Date cannot be prior to the MPAN MHHS Migration Date	SSCEffectiveFromDate must not be prior to the MPAN MHHS Migration Date

4.9 PUB-031 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

4.9.1 All Event Codes and Appointment Scenarios

Response Code & Message	**Validation**
REG1001 - MPAN <MPAN Core> is at <RMPStatus> not status Created/Operational	Specified MPAN must be at RMP Status of Created or Operational
REG1039 - Appointments barred on Related Secondary MPAN <MPAN Core>, use Primary MPAN <Primary MPAN>	Specified MPAN must not be an active Secondary MPAN in a relationship
REG0005 - CSS Registration ID <CSS Request ID> is invalid or Unknown	CSSRegistrationID must be a valid value for the specified MPAN and the submitting Supplier (S1.senderDIPID)

4.9.2 All Event Codes and Appointment Scenarios USP, CSP, COS, SEG

Response Code & Message	**Validation**
REG9009 - MHHS Scenario Codes cannot be used for Unmigrated MPAN	Specified MPAN must not be at MHHS Migration Status of 'Legacy Not

	Migrated', 'Legacy Reverse Migrated' or 'Pending MHHS'

4.9.3 All Event Codes and Appointment Scenario USP, CSP, MCA

Response Code & Message	Validation
REG1033 - Scenario <Appointment Scenario> only valid for Appointed Supplier	The submitting Supplier (S1.senderDIPID) must be the currently appointed Supplier
REG0005 - CSS Registration ID <CSS Request Id> is invalid or Unknown	The CSSRegistrationID must relate to the currently appointed Supplier

4.9.4 All Event Codes and Appointment Scenario COS and MCS

Response Code & Message	Validation
REG0005 - CSS Registration ID <CSS Request Id> is not the Pending Registration	CSSRegistrationID must reference a pending registration, or a Secured Active Registration where the unix system date is prior to the SSD.

4.9.5 All Event Codes and Appointment Scenario SEG

Response Code & Message	Validation
REG0005 - CSS Registration ID <CSS Request Id> is not the currently active or pending registration	The CSSRegistrationID must relate to the currently appointed Supplier or a Pending Suppler registration

4.9.6 All Event Codes and Appointment Scenario MCA and MCS

Response Code & Message	Validation
REG9004 - Third Party Switch in Progress	A Pending Registration, for the same MPAN, with a different CSSRegistrationID must not exist
REG9007 – MCA Appointment Scenario cannot be used for an already Migrated MPAN	Specified MPAN must be at MHHS Status of 'Legacy Not Migrated','Legacy Reverse Migrated' or 'Pending MHHS'
REG9008 – MCA/MCS Scenarios cannot be used by a Non-Qualified Supplier	Associated Supplier must be MHHS Qualified on proposed EFD and the transaction timestamp must be on or after MHHS Go Live

4.9.7 All Event Codes and Appointment Scenario MCA

Response Code & Message	Validation
REG9005 - MCA Appointment Scenario Can Only be Used by Current	SenderDIPID must be the current Supplier for the MPAN

Supplier	

4.9.8 All Event Codes and Appointment Scenario MCS

Response Code & Message	**Validation**
REG9006 – MCS Appointment Scenario Cannot be used by Current Supplier	senderDIPID must not be the Current Supplier

4.9.9 Event Code [MSApp] and all Appointment Scenarios

Response Code & Message	**Validation**
REG1030 - <MS MPID> is not a valid UMSO in DNO LDSO <LDSO MPID>	When Connection Type is Unmetered the proposed MS MPID must = LDSO MPID
REG1099 - SP Effective from date cannot be more than <ADVANCE SP APPOINTMENT CALENDAR DAYS'> days in the future	proposedMeteringServiceDIPEffectiveFromDate must not be greater than MPRS System Date + 'ADVANCE SP APPOINTMENT CALENDAR DAYS'
REG1090 - Proposed Metering Service MPID <MPID> does not match DIP ID	MS MPID must resolve to the same MPID as that held on the Metering Service data for the defined DIP ID
REG1032 - Service Provider Effective From Date must be equivalent to Midnight Local Time	proposedMeteringServiceDIPEffectiveFromDate property value must represent a date with a time portion of midnight local time
REG1081 – MS ID is not a valid MS	proposedMeteringServiceDIPID must be a valid Metering Service on the proposed Metering Service EFD
REG1032 - The final reconciliation date for proposed Metering Service Effective From Date has already passed	MPRS system date must be < ISD Entity M14 Final Reconciliation settlement date for proposed MS EFD

4.9.10 Event Code [MSApp] and Appointment Scenario CSP, COS, SEG, MCA, MCS

Response Code & Message	**Validation**
REG1089 Subsequent Appointment Received	If there is an existing queued Metering Service Request for the same Registration, the Sender Timestamp must be greater than that for the existing queued appointment

4.9.11 Event Code [MSApp] and Appointment Scenario USP, CSP, COS, SEG

Response Code & Message	**Validation**
REG1038 - Appointments barred on Linked Export MPAN <MPAN Core> use Linked Import MPAN <MPAN Core>	Specified MPAN must not be an active Export MPAN in an Import/Export Association

4.9.12 Event Code [MSApp] and Appointment Scenario COS and MCS

Response Code & Message	Validation
REG1032 - Metering Service Effective From Date <Proposed MS EFD> is not contiguous - Appointment must be <Reg EFD>	The proposed EFD must match the Registration EFD

4.9.13 Event Code [MSApp] and Appointment Scenarios USP, CSP, COS, MCA, MCS

Response Code & Message	Validation
REG1031 - Metering Service <MPID> is not compatible with current Market Segment <Market Segment> for MPAN <MPAN Core>	The current Market Segment of the MPAN must match the Market Segment of the proposed Metering Service

4.9.14 Event Code [MSApp] and Appointment Scenario USP

Response Code & Message	Validation
REG1025 - Scenario USP can only be used with currently appointed Service Provider	The referenced Metering Service Provider must match the current Metering Service Provider for the current Registration
REG1032 – Proposed Metering Service Effective From Date <Proposed MS EFD> must match current appointment Effective from Date [Current MS EFD]	The proposed Metering Service EFD must match the EFD of the associated Metering Service currently appointed to the Registration

4.9.15 Event Code [MSApp] and Appointment Scenario CSP

Response Code & Message	Validation
REG1026 - Scenario CSP cannot propose the currently appointed Service Provider	The referenced Metering Service Provider must NOT match the current Metering Service Provider for the current Registration

4.9.16 Event Code [MSApp] and Appointment Scenario CSP/SEG

Response Code & Message	Validation
REG1032 - Metering Service Effective From Date <proposed EFD> is not contiguous - Appointment must be from <Reg EFD>	If no previous confirmed Metering Service exists for the Registration, AND SYSDATE < ISD EntityM14 Final Reconciliation settlement date for the Registration Supply Start Date, then the proposed EFD must match the later of the Registration EFD or the MPAN MHHS Migration Date
REG1032 – <Metering/Data> Service Effective From Date must be from Last Appointment Effective To Date + 1 <ETD + 1>.	Where a previous end-dated Metering Service exists for the same registration AND SYSDATE < ISD Entity M14 Final Reconciliation settlement date for the previous MS ETD, the proposed EFD must equal the previous Metering Service ETD + 1.
REG1032 - Metering Service Effective From Date <Proposed MS EFD> is not contiguous - Appointment must be a minimum of <MS EFD+1>	If a previous Confirmed Metering Service exists for the Registration the proposed EFD must be > existing MS EFD

4.9.17 Event Code [MSApp] and Appointment Scenario SEG

Response Code & Message	Validation
REG1095 - Proposed Metering Service cannot be currently appointed Metering Service for SEG appointment	Where the submitting Supplier is the current Supplier the proposed Metering Service must differ to the current MS of the registration

4.9.18 Event Code [DSApp] and all Appointment Scenarios

Response Code & Message	Validation
REG1099 - SP Effective from date cannot be more than <ADVANCE SP APPOINTMENT CALENDAR DAYS'> days in the future	proposedDataServiceDIPEffectiveFromDate must not be greater than MPRS System Date + 'ADVANCE SP APPOINTMENT CALENDAR DAYS'
REG1091 - Proposed Data Service MPID <MPID> does not match DIP ID	DS MPID must resolve to the same MPID as that held on the Data Service data for the defined DIP ID
REG1092 - Supplier Nominated MDR MPID <MPID> does not match DIP ID	MDR MPID must resolve to the same MPID as that held on the Meter Data Retriever data for the defined DIP ID
REG1081 - MDR ID is not a valid MDR	Must be a valid MDR on proposed EFD
REG1036 - Proposed MDR Effective From Date <Proposed MDR EFD> must not be prior to Data Service Appointment Effective From Date <Current DS EFD>	supplierNominatedMDREffectiveFromDate must be >= proposed DS EFD
REG1036 - Proposed MDR Effective From Date <Proposed MDR EFD> must not be prior to Previous MDR Effective From Date <Current MDR EFD>	supplierNominatedMDREffectiveFromDate must be >= existing MDR EFD
REG1022 – Consent Granularity <Proposed Consent Granularity>, Domestic Premises Indicator <Proposed Domestic Indicator>, Energy Direction <MPAN Energy Direction> and Market Segment <MPAN Market Segment> combination is invalid	supplierProposedConsentGranularity must be a valid combination with Supplier Proposed Domestic Indicator, MPAN Energy Direction Indicator, Market Segment and Meter Category as detailed in the ISD (Note for scenario SEG this will **not** be applied on receipt of the PUB-031, but will be applied at re-validation)
REG1032 - Service Provider Effective From Date must be equivalent to Midnight Local Time	proposedDataServiceDIPEffectiveFromDate property value must represent a date with a time portion of midnight local time
REG1081 – DS ID is not a valid DS	proposedDataServiceDIPID must be a valid Data Service on the proposed Data Service EFD
REG1036 - The final reconciliation date for proposed MDR Effective From Date has already passed	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed MDR EFD
REG1032 - The final reconciliation date for proposed Data Service Effective From Date has already passed	MPRS system date must be < ISD Entity M14 Final Reconciliation settlement date for proposed DS EFD

4.9.19 Event Code [MSApp] and Appointment Scenario CSP, COS, SEG, MCA, MCS

Response Code & Message	Validation
REG1089 Subsequent Appointment Received	If there is an existing queued Data Service Request for the same Registration, the Sender Timestamp must be greater than that for the existing queued appointment

4.9.20 Event Code [DSApp] and Appointment Scenarios USP, CSP, COS, SEG

Response Code & Message	Validation
REG1038 - Appointments barred on Linked Export MPAN <MPAN Core> use Linked Import MPAN <MPAN Core>	Specified MPAN must not be an active Export MPAN in an Import/Export Association, unless it has a Smart Market Segment value set

4.9.21 Event Code [DSApp] and Appointment Scenarios USP, CSP, COS, MCA, MCS

Response Code & Message	Validation
REG1031 - Data Service <MPID> is not compatible with current Market Segment <Market Segment> for MPAN <MPAN Core>	The current Market Segment of the MPAN must match the Market Segment of the proposed Data Service

4.9.22 Event Code [DSApp] and Appointment Scenarios USP

Response Code & Message	Validation
REG1025 - Scenario USP can only be used with currently appointed Service Provider	The referenced Data Service Provider must match the current Data Service Provider for the current Registration
REG1032 - Proposed Data Service Effective From Date <Proposed DS EFD> must match current appointment Effective From Date <Current DS EFD>	The proposed Data Service EFD must match the EFD of the associated Data Service currently appointed to the Registration

4.9.23 Event Code [DSApp] and Appointment Scenarios CSP

Response Code & Message	Validation
REG1026 - Scenario CSP cannot propose the currently appointed Service Provider	The referenced Data Service Provider must NOT match the current Data Service Provider for the current Registration

4.9.24 Event Code [DSApp] and Appointment Scenarios CSP, SEG

Response Code & Message	Validation
REG1032 - Data Service Effective From Date <proposed EFD> is not contiguous - Appointment must be from <Reg EFD>	If no previous confirmed Data Service exists for the Registration, AND SYSDATE < ISD EntityM14 Final Reconciliation settlement date for the Registration Supply Start Date, then the proposed EFD must match the later

	of the Registration EFD or the MPAN MHHS Migration Date
REG1032 - Data Service Effective From Date <Proposed DS EFD> is not contiguous - Appointment must be from <DS EFD+1>	If a previous Confirmed Data Service exists for the Registration the proposed EFD must be > existing DS EFD
REG1032 – <Metering/Data> Service Effective From Date must be from Last Appointment Effective To Date + 1 <ETD + 1>.	Where a previous end-dated Data Service exists for the same registration AND SYSDATE < ISD Entity M14 Final Reconciliation settlement date for the previous DS ETD, the proposed EFD must equal the previous DS ETD + 1.

4.9.25 Event Code [DSApp] and Appointment Scenarios COS and MCS

Response Code & Message	Validation
REG1032 - Data Service Effective From Date <Proposed MS EFD> is not contiguous - Appointment must be <Reg EFD>	The proposed EFD must match the Registration EFD

4.9.26 Event Code [DSApp] and Appointment Scenarios SEG

Response Code & Message	Validation
REG1095 - Proposed Data Service cannot be currently appointed Data Service for SEG appointment	Where the submitting Supplier is the current Supplier the proposed Data Service must differ to the current DS of the registration

4.10 PUB-034 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

4.10.1 Event Codes [MSAppSPResponse] and [DSAppSPResponse]

Response Code & Message	Validation
REG0005 - CSS Registration ID <CSS Request ID> is invalid or Unknown	CSSRegistrationID must be a valid value for the specified MPAN and Supplier
RCP1063 - Message Data Content Differs from that Issued or Expected	There must be a corresponding appointment request for the same Service Provider, Correlation ID and Registration ID, and the block element values contained in the PUB-034 must match those provided in the associated PUB-031
RCP1063 - Appointment is not at status ‘Queued’	The corresponding Appointment Request must be at status Queued. I.e. there must not be a previous PUB-034 response for the same appointment request.
RCP1022 - Msg Contains Invalid Value for Value Restricted Field (proposedAppointmentResponseCode)	proposedAppointmentResponseCode must be one of the following DS001 DS001 - Supplier Nominated MDR Invalid/Unsupported DS002

	DS002 - SMSO Un-Supported DS003 DS003 - Trad/ Fall Back Read Freq Invalid / Missing DS004 DS004 - Change of MDR - Insufficient Notice DS005 DS005 - Change of MDR - Cannot be Retrospective DS006 DS006 - Change of MDR - Lead Time Too Large SP000 SP000 - Proposed Appointment ACCEPTED SP001 SP001 - No Contract(s) exist for Supplier SP002 SP002 - Contract Ref not valid for Supplier SP003 SP003 - Contract Ref not valid for Connection Type or Market Segment SP004 SP004 - Connection Type Not Supported SP005 SP005 - Segment Not Supported SP006 SP006 - Meter Type(s) Not Supported SP007 SP007 - Out of Operational Area SP008 SP008 - Address Information Insufficient or Invalid SP009 SP009 - Meter is not DCC Enrolled SP010 SP010 - Domestic Indicator Value not Supported SP011 SP011 - Insufficient Notice / Lead Time for Appointment to take effect SP012 SP012 - Consent Granularity not provided when Expected / Required

	SP013 SP013 - MDR Not specified by Supplier and/or No agreed MDR Default exists SP099 SP099 - Other

4.10.2 Event Code [MSAppSPResponse]

Response Code & Message	Validation
RCP1063 – Sender DIP ID does not match Proposed Metering Service DIP Id	senderDIPID must be the same as the Proposed Metering Service DIP Id

4.10.3 Event Code [DSAppSPResponse]

Response Code & Message	Validation
RCP1063 – Sender DIP ID does not match Proposed Data Service DIP Id	senderDIPID must be the same as the Proposed Data Service DIP Id

4.10.4 Event Code [DSAppSPResponse] and Response Code 'A'

Response Code & Message	Validation
REG1093 – SDS Nominated MDR MPID does not match DIP ID	SDSNominatedMDRMPID must match the MPID for the specified SDSNominatedMDRDIPID
REG1083 – MDR Effective From Date must not be prior to DS Appointment Effective From Date <DS Appointment EFD>	SDSNominatedMDRRequestedEffectiveFromDate must not be prior to the proposedDataServiceDIPEffectiveFromDate
REG1083 – MDR Effective From Date must not be prior to Previous MDR Effective From Date Appointment Effective From Date <current MDR EFD>	SDSNominatedMDRRequestedEffectiveFromDate must not be prior to the current MDR EFD of the associated Data Service Appointment
REG1082 – MDR Effective From Date cannot be more than <ADVANCE MDR APPOINTMENT CALENDAR DAYS> days in the future	SDSNominatedMDRRequestedEffectiveFromDate must not be more than <ADVANCE MDR APPOINTMENT CALENDAR DAYS> TP into the future
REG1081 – MDR ID is not a valid MDR	SDSNominatedMDRDIPID must be valid within the ISD on proposed EFD
REG1083 - The final reconciliation date for proposed MDR Effective From Date has already passed	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed MDR EFD

4.10.5 Event Code [SDS-MDRUpdate]

Response Code & Message	Validation
REG1001 - MPAN #1 is at Disconnected/Terminated not status Created/Operational	MPANCore must not be disconnected
REG1080 - MDR Update only available to Currently Appointed Data Service	Submitting Data Service must be the currently appointed Data Service (with status of 'Confirmed')

REG1084 – Supplier referenced is not the current Supplier	serviceProviderAppointmentRequestingSupplierDIPID and serviceProviderAppointmentRequestingSupplierMPID must be the current Supplier
REG0005 - CSS Registration ID [CSSRegistrationID] is invalid or Unknown	CSSRegistrationID must be for the currently active registration
REG1081 – MDR ID is not a valid MDR	SDSNominatedMDRDIPID must be valid within the ISD on proposed EFD
REG1098 - Proposed MDR cannot be currently appointed MDR	Cannot submit an appoint request for the already currently appointed MDR, except where the DSP MDR Response Status = 'Failed'. If the current appointment has a DSP MDR Response Status = 'Failed' re-submitting the same MDR with the same EFD is valid and will retrigger the notification to CSS.
REG1093 – SDS Nominated MDR MPID does not match DIP ID	SDSNominatedMDRMPID must be correct for the DIPID specified
REG1083 - MDR Effective from Date must not be prior to Previous MDR Effective from Date [current MDR EFD]	SDSNominatedMDRRequestedEffectiveFromDate must not be prior to current MDR EFD of the associated Data Service Appointment
REG1083 – MDR Effective From Date must not be prior to DS Appointment Effective From Date <DS Appointment EFD>	SDSNominatedMDRRequestedEffectiveFromDate must not be prior to the proposedDataServiceDIPEffectiveFromDate
REG1082 – MDR Effective From Date cannot be more than <SDS ADVANCE MDR APPOINTMENT CALENDAR DAYS> days in the future	SDSNominatedMDRRequestedEffectiveFromDate must not be more than <SDS ADVANCE MDR APPOINTMENT CALENDAR DAYS> TP into the future
REG1083 - The final reconciliation date for proposed MDR Effective From Date has already passed	MPRS System Date must be < ISD Entity M14 Final Reconciliation settlement date for proposed MDR EFD

4.11 PUB-038 Validation

Messages which are structurally invalid will be rejected with level 4 validation.

4.11.1 All Event Codes

Response Code & Message	**Validation**
REG1001 - MPAN <MPAN Core> is at Disconnected/Terminated not status Created/Operational	MPAN must not be disconnected
REG9001 - CDC Marker Cannot be applied to an Unmigrated MPAN	MPAN must be at MHHS Status of 'MHHS New Connection' or 'MHHS Migrated'

4.11.2 Event Code [DirectContractMSAdd]

Response Code & Message	Validation
REG1076 - Sender ID must equal CDC DIP ID	Sender DIPID must equal the customerDirectContractMeteringServiceDIPID attribute
REG1073 - Customer Direct Contract already exists for MPAN	When a currently active Customer Direct Contract Metering Service (CDC MS) exists the SenderDIPID must equal the current CDC MS DIP ID
REG1071 - Contract End Date must be in the future	customerDirectContractMeteringServiceEffectiveToDate must be later than the current UNIX System Date
REG1072 - Customer Direct Contract End Date cannot extend beyond 3 years	customerDirectContractMeteringServiceEffectiveToDate must be not be more than 'DIRECT CUSTOMER CONTRACT MAX FUTURE ETD' TP in the future

4.11.3 Event Code [DirectContractMSRemove]

Response Code & Message	Validation
REG1074 - Cannot Remove as no Customer Direct Contract(s) exists for Participant [S1.SenderDIPID]	SenderDIPID must equal the DIP ID for the active Customer Direct Contract Metering Service (CDC MS)

4.11.4 Event Code [DirectContractDSAdd]

Response Code & Message	Validation
REG1076 - Sender ID must equal CDC DIP ID	Sender DIPID must equal the customerDirectContractDataServiceDIPID attribute
REG1073 - Customer Direct Contract already exists for MPAN	When a currently active Customer Direct Contract Data Service (CDC DS) exists the SenderDIPID must equal the current CDC DS DIP ID
REG1071 - Contract End Date must be in the future	customerDirectContractDataServiceEffectiveToDate must be later than the current UNIX System Date
REG1072 - Customer Direct Contract End Date cannot extend beyond 3 years	customerDirectContractDataServiceEffectiveToDate must be not be more than 'DIRECT CUSTOMER CONTRACT MAX FUTURE ETD' TP in the future

4.11.5 Event Code [DirectContractDSRemove]

Response Code & Message	Validation
REG1074 - Cannot Remove as no Customer Direct Contract(s) exists for Participant [S1.SenderDIPID]	SenderDIPID must equal the DIP ID for the active Customer Direct Contract Data Service (CDC DS)

APPENDIX A SCENARIO – UPDATING SMSO ID AND EFD (LEGACY MPANS ONLY)

This scenario assumes that Supplier 1 (the old supplier) is registered to metering point A which has a smart meter and an SMSO and EFD exist in MPRS.

Supplier 2 (the new supplier) registers for the metering point with the base data, ie only the MPAN and a future registration date are provided in the D0055. They then receive the default appointments and details for the metering point including the SMSO and EFD.

If Supplier 2 is satisfied with these appointments, then no further action is required. MPRS will store the smart data items with the original EFD, so the SMSO will keep its original EFD. The DC, DA and MOP agent appointments will have an effective from date of the new registration, this is no change from how MPRS currently works.

Once the registration is confirmed from MPRS, Supplier 2 has the option to update the meter point details and to appoint their own agents (DA, DC and MOP) via a D0205 flow. The flow can be sent prior to the registration effective from date to appoint them immediately the registration is effective. This is not the case with smart data.

As changes to smart data can be made retrospectively or the same day, the earliest date a supplier can send a D0205 changing the SMSO is the registration effective from date. Hence Supplier 2 has to send the D0205 amending the SMSO on or after the registration effective from date.

This scenario is represented diagrammatically below.

