

MPRS Validation Rules



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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	15
	Attachment 3 – Additional Rules.....	27
	Key Validations for D0324	30
	Key Validations for Smart Data	30
	Key Validations for Registration Withdrawal	31
	Key validations for DCC Service Flag (D0350 Flow)	32
	Key validations for P300 Changes	32
	Key validations for CP1434 Changes	32
4	Attachment 4 – Rejection Reason Codes	34
	Appendix A Scenario – updating SMSO ID and EFD.....	41

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Validation Rules

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DOCUMENT CONTROL

A Document History

Version	Author(s)	Reason for Issue	Date
5.0	Richard Warham		July 2012
5.1	Carmen Strickland	Incorporation of smart data into D0205 flow	July 2013
5.2	Richard Warham	Further smart metering information added	August 2013
5.3	Richard Warham	MRA CP 0209 DTC CP 0212	April 2014
5.4	Richard Warham	DTC CP 3402	November 2014
5.5	Rajveen Sull	DCC Service Flag information added	December 2014
6.6	Richard Warham	P300 validation. Version numbering change to match the MPRS version number.	July 2015
6.7	Richard Warham	CP1434 validation DTC CP 3486 Correcting MP GSP and MP LLFC validation description	March 2016

B Distribution

Name	Company	Role
	LDSOs	
	MRASCo	

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	<p>Rule applies to the attributes of one instance of the entity only.</p> <p><i>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:-</i></p> <p><i>EFD >= Entry Date - Retrospective Change Period</i></p>
Instance Rule	<p>Rule applies to the attributes across multiple instances of the entity.</p> <p><i>For example, no new REGISTRATION can be made for a METERING POINT which has an existing REGISTRATION with an outstanding objection.</i></p>
Related Entity Rule	<p>Rule applies to the relationship between the attributes of the entity and the attributes of a related entity</p> <p><i>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.</i></p>

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	<p>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</p> <p><i>Effective From Date (EFD) <= Effective To Date (ETD)</i></p>
G2	Instance	<p>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.</p>
G3	Related Entity	<p>Any period of applicability {EFD, ETD} of any instance of the entity must be contained within the applicable periods of its related parent entity.</p>

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 <i>EFD</i> 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 { <i>EFD</i> , <i>ETD</i> }
9		3	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
10		4	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
11		5	Related Entity	<i>EFD</i> of a default appointment must = <i>EFD</i> of REGISTRATION
12		6	Instance	The <i>EFD</i> of a new appointment for REGISTRATION must >= <i>EFD</i> of latest appointment.
13	DATA COLLECTOR		G1	
14			G2	for same ID and TYPE
15	DATA COLLECTOR APPOINTMENT		G1	
16			G2	for a REGISTRATION
17			G5	associated entity = DATA COLLECTOR

Validation Rules

#	Entity	Rule #	Type	Rule
18			G3	associated entity = REGISTRATION
19		1	Related Entity	DATA COLLECTOR must be same type as MP MEASUREMENT CLASS for the period {EFD, ETD}
20		2	Attribute	EFD <= Entry Date + Advance Change Period
21		3	Attribute	EFD >= Entry Date - Retrospective Change Period
22		4	Related Entity	EFD of a default appointment must = EFD of REGISTRATION
23		5	Instance	The EFD of a new appointment for REGISTRATION must >= EFD of latest appointment.
24	GSP GROUP		G1	
25		1	Related Entity	ETD >= ETD of any related MP GSP GROUP
26		2	Related Entity	ETD >= ETD of any related ISR AGENT APPOINTMENT
27	IN HOME DISPLAY INSTALL STATUS	1	Attribute	Must be I, D or E. (This represents Installed, Declined or Existing)
28	ISR AGENT APPOINTMENT		G1	
29			G2	for a GSP GROUP
30			G3	associated entity = GSP GROUP
31	LINE LOSS FACTOR CLASS		G1	
32		1	Related Entity	ETD >= ETD of any related MP LLF CLASS
33	MEASUREMENT CLASS		G1	
34		2	Related Entity	ETD >= ETD of any associated MP MEASUREMENT CLASS
35	METER OPERATOR		G1	
36			G2	for same ID and TYPE
37	METER OPERATOR APPOINTMENT		G1	

Validation Rules

#	Entity	Rule #	Type	Rule
38			G2	for a REGISTRATION
39			G5	associated entity = METER OPERATOR
40			G3	associated entity = REGISTRATION
41		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 MEASUREMNT CLASS B METER OPERATOR must be an MA with MP MEASUREMNT CLASS D
42		2	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
43		3	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
44		4	Related Entity	<i>EFD</i> of a default appointment must = <i>EFD</i> of REGISTRATION
45		5	Instance	The <i>EFD</i> of a new appointment for REGISTRATION must >= <i>EFD</i> of latest appointment.
46	METER/TIMESWITCH CLASS		G1	
47		1		<i>ETD</i> >= <i>ETD</i> of any related METERING POINT METER/TIMESWITCH CLASS
48	METERING POINT	1	Attribute	ERS MSID is mandatory if 1998 Trading Indicator is 'NO'
49		2	Attribute	1998 Trading Indicator is 'NO' if and only if ERS Transfer Date is NULL
50		3	Attribute	1998 Trading Indicator is 'YES' or NULL if Metering Point is NHH
51		4	Attribute	1998 Trading Indicator is 'YES' if and only if ERS Transfer Date is NOT NULL (see also 2)
52		5	Attribute	A non-NULL ERS Transfer Date cannot be updated
53		6	Attribute	A non-NULL ERS MSID cannot be updated
54		7	Attribute	No update is allowed of a 'disconnected' METERING POINT
55		8	Related Entity	When a METERING POINT is created, a METERING POINT STATUS of 'new' is also created.
56		9	Attribute	At least one Address line OR the Post Code must be present

Validation Rules

#	Entity	Rule #	Type	Rule
57		10	Attribute	For Migration Request if ERS MSID non-NULL then request ERS MSID must = mp ERS MSID.
58	METERING POINT DCC SERVICE FLAG		G1	
59			G2	For a METERING POINT
60		1	Related Entity	For a 'disconnected' METERING POINT, the <i>EFD</i> <= date of disconnection
61		2	Instance	New <i>EFD</i> >= <i>EFD</i> of latest for METERING POINT
62	METERING POINT ENERGISATION STATUS		G1	
63			G2	for a REGISTRATION
64		1	Related Entity	Energisation Status can only be set if, on the <i>EFD</i> , LLF CLASS, TS CODE, MEASUREMENT CLASS, and PROFILE CLASS/MP CONFIGURATION PROFILE CLASS are defined.
65		2	G3	associated entity = DATA COLLECTOR APPOINTMENT
66		3	G3	associated entity = DATA AGGREGATOR APPOINTMENT
67		4	G3	associated entity = METER OPERATOR APPOINTMENT
68		5	Related Entity	Status must be 'de-energised' when MP is 'disconnected'
69		6	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
70		7	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
71		8	Related Entity	<i>EFD</i> of a default status must = <i>EFD</i> of REGISTRATION
72		9	Instance	The <i>EFD</i> of a new status for REGISTRATION must >= <i>EFD</i> of latest status
73	METERING POINT GSP GROUP		G1	
74			G2	for a METERING POINT
75			G4	for a METERING POINT

Validation Rules

#	Entity	Rule #	Type	Rule
76		1	Related Entity	If METERING POINT is disconnected, <i>EFD</i> < disconnection date
77		2	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
78		3	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
79		4	Instance	New <i>EFD</i> >= <i>EFD</i> of latest for METERING POINT
80	METERING POINT LLF CLASS		G1	
81			G2	for METERING POINT
82			G4	for METERING POINT at status 'traded'
83		1	Related Entity	For a 'disconnected' METERING POINT, the <i>EFD</i> <= date of disconnection
84			G3	for METERING POINT not being traded on ERS
85		2	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
86		3	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
87		4	Instance	New <i>EFD</i> >= <i>EFD</i> of latest for METERING POINT
88	METERING POINT MEASUREMENT CLASS		G1	
89			G2	for a REGISTRATION
90			G4	for METERING POINT at status 'traded'
91		1	Related Entity	For a 'disconnected' METERING POINT, the <i>EFD</i> <= date of disconnection
92		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 <i>EFD</i> 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

Validation Rules

#	Entity	Rule #	Type	Rule
93		3	Attribute	$EFD \leq \text{Entry Date} + \text{Advance Change Period}$
94		4	Attribute	$EFD \geq \text{Entry Date} - \text{Retrospective Change Period}$
95		5	Related Entity	EFD of a default class must = EFD of REGISTRATION
96		6	Instance	The EFD of a new class for REGISTRATION must \geq EFD of latest class
97		8	Attribute	For Migration Request - Measurement Class must be Half Hourly.
98	METERING POINT METER/TIMESWITCH CLASS		G1	
99			G2	for a REGISTRATION
100			G4	for METERING POINT at status 'traded'
101			G5	for a MTC/SSC COMBINATION where MP CONFIGURATION PROFILE exists
102		1	Related Entity	For a 'disconnected' METERING POINT, the $EFD \leq$ date of disconnection
103		2	Attribute	$EFD \leq \text{Entry Date} + \text{Advance Change Period}$
104		3	Attribute	$EFD \geq \text{Entry Date} - \text{Retrospective Change Period}$
105		4	Related Entity	EFD of a default class must = EFD of REGISTRATION
106		5	Instance	The EFD of a new class for REGISTRATION must \geq EFD of latest class
107	METERING POINT STATUS		G1	
108			G2	for a METERING POINT
109			G4	for a METERING POINT
110			G5	'Traded' status only if associated entity ENERGISATION STATUS exists
111			G5	'Registered' or 'Traded' only if associated entity REGISTRATION exists.
112		1	Attribute	Identifier is in set { 'N', 'R', 'T', 'X' }
113		2	Attribute	Valid Status transitions are : 'N' to { 'R', 'T', 'X' }; 'R' to { 'T', 'X' }; 'T' to { 'X' }
114		3	Attribute	For 'disconnected' status $EFD \leq$ date of entry

Validation Rules

#	Entity	Rule #	Type	Rule
115		4	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
116		5	Instance	New <i>EFD</i> > <i>EFD</i> of latest status for METERING POINT
117	MP CONFIGURATION PROFILE		G1	
118			G2	for a REGISTRATION
119			G5	for a STANDARD SETTLEMENT CONFIGURATION PROFILE CLASS
120			G3	for a METERING POINT of type NHH
121			G5	for a MTC/SSC COMBINATION where METERING POINT METER/TIMESWITCH CLASS exists
122		1	Related Entity	MP PROFILE CLASS must not exist for same MP on <i>EFD</i>
123		2	Related Entity	<i>EFD</i> of profile of a 'disconnected' MP <= disconnection date of METERING POINT
124		3	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
125		4	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
126		5	Related Entity	<i>EFD</i> of a default profile must = <i>EFD</i> of REGISTRATION
127		6	Instance	The <i>EFD</i> of a new profile for REGISTRATION must >= <i>EFD</i> of latest profile
128	MP PROFILE CLASS		G1	
129			G2	for a REGISTRATION
130			G5	for PROFILE CLASS
131		1	Related Entity	MP CONFIGURATION PROFILE must NOT exist for same MP on <i>EFD</i>
132		2	Related Entity	Must be same type as MEASUREMENT CLASS on <i>EFD</i>
133		3	Related Entity	<i>EFD</i> of profile of a 'disconnected' MP <= disconnection date of METERING POINT
134		4	Attribute	<i>EFD</i> <= Entry Date + Advance Change Period
135		5	Attribute	<i>EFD</i> >= Entry Date - Retrospective Change Period
136		6	Related Entity	<i>EFD</i> of a default profile must = <i>EFD</i> of REGISTRATION

Validation Rules

#	Entity	Rule #	Type	Rule
137		7	Instance	The <i>EFD</i> of a new profile for REGISTRATION must \geq <i>EFD</i> of latest profile
138	MP GREEN DEAL		G1	
139			G3	For Green Deal Licensee
140			G4	For METERING POINT at status 'traded'
141		1	Related Entity	MP LLFC must be of type IMPORT
142			Attribute	<i>EFD</i> > Entry Date
143	MP IN HOME DISPLAY INSTALL STATUS		G1	
144			G2	for a REGISTRATION
145		1	Attribute	Must be I, D or E. (representing Installed, Declined or Existing)
146		2	Attribute	<i>EFD</i> \geq Entry Date – Retrospective Change Period
147		3	Attribute	<i>EFD</i> \leq Entry Date
148		4	Instance	The <i>EFD</i> of a new MP IN HOME DISPLAY INSTALL STATUS for REGISTRATION must \geq <i>EFD</i> of latest MP IN HOME DISPLAY INSTALL STATUS
149		5	Related Entity	<i>EFD</i> of a default MP IN HOME DISPLAY INSTALL STATUS will retain the <i>EFD</i> of the latest status for the previous Registration
150	MP SMETS VERSION	1	G1	
151			G2	for a REGISTRATION
152			G5	for a SMETS VERSION
153	MTC/SSC COMBINATION		G1	
154		1		<i>ETD</i> \geq <i>ETD</i> of any related METERING POINT METER/TIMESWITCH CLASS
155		2		<i>ETD</i> \geq <i>ETD</i> of any related MP CONFIGURATION PROFILE
156	PROFILE CLASS		G1	

Validation Rules

#	Entity	Rule #	Type	Rule
157		1	Related Entity	<i>ETD</i> >= <i>ETD</i> of any associated SETTLEMENT CONFIGURATION CLASS
158		2	Related Entity	<i>ETD</i> >= <i>ETD</i> of any associated MP PROFILE CLASS
159	REFRESH REQUEST	1	Attribute	Significant From Date <= 'Current Date' + 2 years
160	REGISTRATION		G1	
161			G2	for a METERING POINT ignoring REGISTRATIONS with objection status 'outstanding', 'upheld' or registration 'withdrawn'
162			G3	for SUPPLIER
163			G4	for 'registered' or 'traded' METERING POINT
164		1	Attribute	<i>EFD</i> > entry date
165		2	Instance	New Supplier must not be currently liable for the MP
166		3	Related Entity	<i>EFD</i> >= non-NULL MP ERS Transfer Date
167		4	Related Entity	METERING POINT STATUS not 'disconnected' on <i>EFD</i>
168		5	Attribute	<i>EFD</i> <= Entry Date + Advance Registration Period
169		6	Instance	Entry Date >= Entry Date + Registration Lockout Period for same METERING POINT
170		7	Instance	No existing REGISTRATION for the METERING POINT can have an outstanding objection
171		8	Instance	No existing REGISTRATION for the METERING POINT can be pending. ('pending' on a date = <i>EFD</i> > the date) (ignoring REGISTRATIONS with objection status 'upheld')
172		9	Attribute	Valid objection status transitions are: NULL to { 'outstanding' or 'registration withdrawn' }; 'outstanding' to { 'removed', 'upheld', 'registration withdrawn' }
173		10	Attribute	Entry date >= receipt date
174		11	Attribute	Objection entry date >= objection receipt date
175		12	Attribute	Objection entry date <= CoS entry date + Objection Period
176		13	Attribute	Objection removal entry date >= objection removal receipt date

Validation Rules

#	Entity	Rule #	Type	Rule
177		14	Attribute	Objection removal entry date <= Objection entry date + Objection Resolution Period
178		15	Attribute	Objection removal receipt date >= objection entry date
179		16	Attribute	An Objection removal entry date requires Objection entry date to be non-NULL
180		17	Attribute	Objection entry date >= Registration entry date
181		18	Attribute	Objection entry date, Objection receipt date are both NULL or both non-NULL
182		19	Attribute	Objection removal entry date, Objection removal receipt date are both NULL or both non-NULL
183		20	Attribute	If Objection entry date is non-NULL then Objection status must be non-NULL
184		21	Attribute	Objection status 'removed' if and only if Objection removal date is non-NULL
185		22	Attribute	Objection status 'upheld' requires entry date > Objection entry date + Objection Resolution Period
186		23	Attribute	Supplier must be Green Deal Licensee if active or future Green Deal exists
187		24	Attribute	Withdrawal entry date >= withdrawal receipt date
188		25	Attribute	Withdrawal entry date >= Registration entry date
189		26	Attribute	Withdrawal entry date < CoS Effective From Date - Withdrawal Period
190		27	Attribute	Withdrawal entry date, Withdrawal receipt date are both NULL or both non-NULL
191		28	Attribute	Withdrawal entry date is non-NULL then Withdrawal status must be 'Withdrawn'
192		29	Attribute	Objection status <> withdrawn if Objection = 'upheld'
193		30	Attribute	Objection status 'outstanding', 'removed', 'upheld' only if Withdrawal status is null
194		23	Attribute	Supplier must be Green Deal Licensee if active or future Green Deal exists
195	RESEND REQUEST	1	Attribute	Data format must be specified for resend method other than network
196	SETTLEMENT CONFIGURATION PROFILE CLASS		G1	
197			G3	for PROFILE CLASS
198			G3	for STANDARD SETTLEMENT CONFIGURATION

Validation Rules

#	Entity	Rule #	Type	Rule
199		1	Attribute	<i>ETD</i> >= <i>ETD</i> of any associated MP CONFIGURATION PROFILE CLASS
200	SMART METERING SYSTEM OPERATORS		G1	
201			G2	for same ID
202	SMART METERING SYSTEM OPERATORS APPOINTMENTS		G1	
203			G2	For a REGISTRATION
204			G3	associated entity = REGISTRATION
205			G5	Associated entity = SMART METER SYSTEM OPERATORS
206		1	Attribute	<i>EFD</i> >= Entry Date – Retrospective Change Period
207		2	Attribute	<i>EFD</i> <= Entry Date
208		3	Related Entity	<i>EFD</i> of a default appointment will retain the <i>EFD</i> of the latest appointment for the previous Registration
209		4	Instance	The <i>EFD</i> of a new appointment for REGISTRATION must >= <i>EFD</i> of latest appointment.
210	SMETS VERSION	G1		
211		1	Attribute	Must be a valid SMETS Version as defined by Elexon
212	STANDARD SETTLEMENT CONFIGURATION		G1	
213		1	Related Entity	<i>ETD</i> >= <i>ETD</i> of any associated SETTLEMENT CONFIGURATION PROFILE CLASS
214	SUPPLIER		G1	
215			G2	for same ID

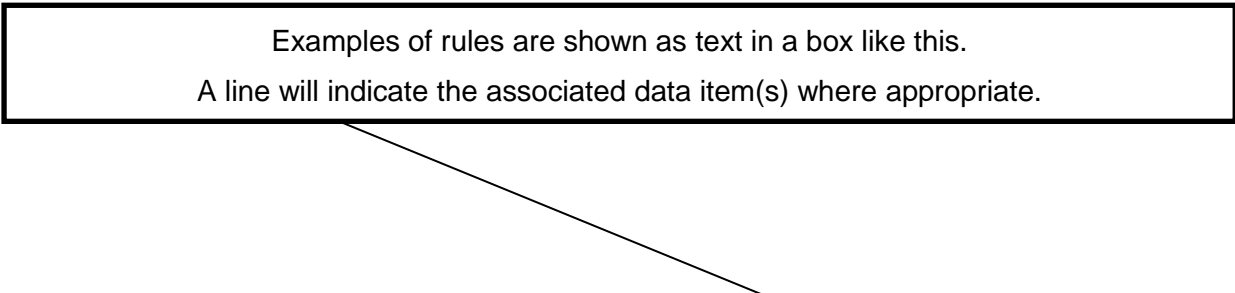
3 ATTACHMENT 2 – DATA FLOW VALIDATION

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.

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: D0055
Flow Name: Registration of Supplier to Specified Metering Point
Flow Description: Supplier registers 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
Supplier	MPAS	2.0
New Supplier	MPAS	1.0

Data Items:

Reference	Item Name
J0215	Change of Tenancy Indicator
J0163	Data Aggregation Type
J0183	Data Aggregator Id
J0205	Data Collector Id
J0218	Data Collector Type
J0049	Effective from Settlement Date {REGI}
J0080	Energisation Status
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0082	Measurement Class Id
J0178	Meter Operator Id
J0675	Meter Operator Type
J0220	Meter/Timeswitch Class Id
J0003	MPAN Core
J0071	Profile Class Id
J0076	Standard Settlement Configuration Id

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
733	File Sequence Number	1		G								
					1							File Sequence Number
126	Registration Data, Agent Details and Metering Point Details	1-*		G								
						1						Instruction Number
							1					Instruction Type
								1				MPAN Core
									1			Effective from Settlement Date {REGI}
										0		Energisation Status

For SP01, MPAN Core must not have an existing Registration. The converse is true for SP04.

Validation Rules

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	
	The Profile Class/Standard Settlement Configuration combination must be effective as of the Effective Settlement Date {REGI}											Measurement Class Id	
												Meter Timeswitch Code	
													Profile Class Id
													Standard Settlement Configuration Id
	The Data Aggregator must be approved as of the Effective Settlement Date {REGI}.											Data Aggregator Id	
												Data Aggregation Type	
													Data Collector Id
	The Meter Operator must be the correct type (MOp, UMSo or MA) if Measurement Class provided.											Data Collector Type	
												Meter Operator Id	
													Meter Operator Type
												Change of Tenancy Indicator	

Notes:

Change of tenancy indicator must be included for customers covered by contract terms code, other options are to be included when necessary to provide change data for MPAS. The rules for including specific data items and the dependency between items are to be specified within the MPAS Agreement.

This flow includes unmetered supply requirements.

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 3.1	502	Order of data items in flow structure changed to reflect registration system design
Version 3.1	1462	As per Data Interface requirements, sequential file and instruction numbers included in this
Version 3.1	1575	Sub Groups removed as per MPRS design specifications.
Version 3.1	1885	Notes added.

MRA Secretariat

MRA Data Transfer Catalogue

Flow Reference: D0064
Flow Name: Notification of an Objection to Change of Supplier Made By the Old Supplier
Flow Description: Raise an objection to block the specified metering point changing Supplier for a legitimate reason
Flow Type: Electronic and Manual
Flow Sensitivity: Medium
Data Protection: No
Flow Ownership: MRA

This flow must be received by MPRS within 5 days (The OBJECTION PERIOD - see Attachment 3) of the new registration.

From Old Supplier **To** MPAS **Version** 1.0

Data Items:

Reference	Item Name
J0049	Effective from Settlement Date {REGI}
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0003	MPAN Core
J0031	Registration Transaction Number

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
736	File Sequence Number	1		G								File Sequence Number
139	List of Objections	1-*		G								Instruction Number
						1						Instruction Type
						1						MPAN Core
						1						Registration Transaction Number
						1						Effective from Settlement Date {REGI} for New Supplier

MPAN Core / Effective from Settlement Date {REGI} must identify the NEW registration to which the Supplier is objecting.

Notes:

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 3.1	1462	As per Data Interface requirements, sequential file and instruction numbers included in this

MRA Secretariat

MRA Data Transfer Catalogue

Flow Reference: D0068

Flow Name: Removal of Registration Objection

Flow Description: Old Supplier removes objection to the Change of Supplier and lodges this with the Registration System

Flow Type: Electronic and Manual

Flow Sensitivity: Medium

Data Protection: No

Flow Ownership: MRA

This flow must be received by MPAS within 1 day (The OBJECTION RESOLUTION PERIOD - see Attachment 3) of the original objection (flow D0064) by the Old Supplier

From	To	Version
Old Supplier	MPAS	1.0

Data Items:

Reference	Item Name
J0049	Effective from Settlement Date {REGI}
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0003	MPAN Core
J0031	Registration Transaction Number

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
740	File Sequence Number	1		G								
					1							File Sequence Number
144	List of Objections	1-*		G								
						1						Instruction Number
						1						Instruction Type
						1						MPAN Core
						1						Registration Transaction Number
						1						Effective from Settlement Date {REGI}

MPAN Core / Effective from Settlement Date {REGI} must identify the NEW registration to which the old Supplier is removing the objection.

Notes:

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 3.1	1462	As per Data Interface requirements, sequential file and instruction numbers included in this

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 {IHD}
J0297	Effective from Settlement Date {MSES}
J0307	Effective from Settlement Date {MSMC}
J0308	Effective from Settlement Date {MSPC}
J0049	Effective from Settlement Date {REG}
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	1-*	G									

Validation Rules

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
Provide Update Details												
						1						Instruction Number
						1						Instruction Type
	MPAN Core / Effective from Settlement Date {REGI} must identify the registration.					1						MPAN Core
						1						Effective from Settlement Date {REGI}
	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.					0						Energisation Status
						0						Effective from Settlement Date {MSES}
							0					Measurement Class Id
						0						Effective from Settlement Date {MSMC}
	All or None of the data items of a "group" [illustrated by { }] must be specified.					0						Meter Timeswitch Code
						0						Meter Timeswitch Code Effective from Date
						0						Profile Class Id
	This "group" is a special case - refer to Attachment 3 # 1.					0						Effective from Settlement Date {MSPC}
						0						Standard Settlement Configuration Id
							0					Effective from Settlement Date {SCON}
	The DA Type must be the same as the Measurement Class Type at the Effective from Settlement Date {DAA}.					0						Data Aggregator Id
						0						Data Aggregation Type
							0					Effective from Settlement Date {DAA}
	The DC Type must be the same as the Measurement Class Type at the Effective from Settlement Date {DCA}.					0						Data Collector Id
						0						Data Collector Type
							0					Effective from Date {DCA}
	The Meter Operator must be the correct type (MOp, UMSO or MA) if Measurement Class provided.					0						Meter Operator Id
						0						Meter Operator Type
							0					Effective from Date {MOA}
						0						SMETS Version
	These smart items can only be set to the same day as the entry date or retrospectively					0						SMS Operator ID
						0						Effective from Date {SMSO}
							0					IHD Install Status
						0						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

MRA Secretariat

MRA Data Transfer Catalogue

Flow Reference: D0271
Flow Name: Request Contact Notice
Flow Description: Latest Registered or previous Supplier requests a Contact Notice for both Suppliers (from an MPAS which is not providing the controlled Market Start-Up option of automatically notifying each Supplier of the other's Id on Change of Supplier).
Flow Type: Electronic and Manual
Flow Sensitivity: Medium
Data Protection: No
Flow Ownership: MRA

From Supplier **To** MPAS **Version** 4.0

Data Items:

Reference	Item Name
J0924	Effective from Settlement Date {REGI} for New Supplier
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0003	MPAN Core
J0031	Registration Transaction Number

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
10A	File Sequence Number	1		G								
					1							File Sequence Number
11A	Request Contact Notice	1-*		G								
						1						Instruction Number
							1					Instruction Type
								1				MPAN Core
									1			Registration Transaction Number
										1		Effective from Settlement Date {REGI} for New Supplier

MPAN Core / Effective from Settlement Date {REGI} must identify the latest registration for the Metering Point. Where the Registration Transaction Number is provided then this must also relate to the latest registration for this MPAN.

Notes:

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 4.0	2316	New Data Flow created

MRA Secretariat

MRA Data Transfer Catalogue

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 GDCC **To** MPAS **Version** 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

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

MRA Secretariat

MRA Data Transfer Catalogue

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 DCC **To** MPAS **Version** 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

MRA Secretariat

MRA Data Transfer Catalogue

Flow Reference: D0358
Flow Name: Withdrawal of Registration by New Supplier to Specified Metering Point
Flow Description: Withdrawal of Registration process has been requested by New Supplier to MPAS
Flow Type: Electronic and Manual
Flow Sensitivity: Medium
Data Protection: No
Flow Ownership: MRA

This flow must be received by MPRS no less than 2 days (The WITHDRAWAL PERIOD - see Attachment 3) before the new registration effective from date.

From Supplier **To** MPAS **Version** 11.1

Data Items:

Reference	Item Name
J0924	Effective from Settlement Date {REGI} for New Supplier
J0330	File Sequence Number
J0109	Instruction Number
J0723	Instruction Type
J0003	MPAN Core
J0031	Registration Transaction Number

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
33I	File Sequence Number	1		G								
					1							File Sequence Number
26I	List of Withdrawals	1-*		G								
						1						Instruction Number
							1					Instruction Type
								1				MPAN Core
									1			Effective from Settlement Date {REGI} for New Supplier
										1		Registration Transaction Number

MPAN Core / Effective from Settlement Date {REGI} / Registration Transaction Number must identify the NEW registration to which the Supplier is withdrawing.

Notes:

Version History:

Catalogue release	CR No.	Brief description of the change and its reason
Version 11.1	3402	New Data Flow Created.

ATTACHMENT 3 – ADDITIONAL RULES

Additional MPRS Rules/Constraints/Design Features Applicable to Data Flows from Suppliers

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

<p>1.</p>	<p>Data Flow D0205 (= SP02)</p> <p>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.</p> <p>The mapping between the D0205 data items to an MPRS Metering Point Configuration Profile (MP CP) is shown below:</p> <ol style="list-style-type: none"> 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) <p>For a change to</p> <ol style="list-style-type: none"> 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. <p>The HH Profile Class is '00' and if not specified will default to this value.</p>
<p>2.</p>	<p>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.</p> <p>MPRS does not allow the insertion of instances of data entities whose period of effectiveness is before an already existing instance.</p>
<p>3.</p>	<p>The D0055 data flow is used to send both SP01 and SP04 instruction types.</p> <p>The SP01 is ONLY used to register NEW metering point connections.</p> <p>The SP04 is ONLY used to register a CHANGE to an existing metering point registration.</p> <p>The validation of these two instruction types is different. An SP01 is rejected when a registration already exists. Conversely, an SP04 is rejected when a registration does not already exist.</p>
<p>4.</p>	<p>When an objection is raised or removed, any changes to the metering point data made by the Distribution Business during the objection period and the objection resolution period are notified to suppliers via the D0089 data flow. (= SP51, SP64)</p> <p>MPRS understands that other systems may use the D0171 (= SP28, SP29) data flow.</p>

<p>5.</p>	<p>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 D0055/D0205 flow.</p> <p>MPRS performs validation on data received from the D0055/D0205 flow to check (where possible) that the Meter Operator ID, Meter Operator Type and Measurement Class (MC) are consistent.</p> <p>Because the Meter Operator ID and Measurement Class are optional fields on the D0055/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:</p> <ul style="list-style-type: none"> • 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. <p>If any of these checks fail then the flow will be rejected.</p> <p>MPRS will also attempt to perform an agent re-assignment to correct data mismatches (and avoid flow rejections) under the following specific circumstance:</p> <ul style="list-style-type: none"> • Where the D0055/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.
<p>6.</p>	<p>When the Meter Type is changed - 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.</p>
<p>7.</p>	<p>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.</p>
<p>8.</p>	<p>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.</p>

9. All MPRS validation 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
New Connection	D0055	SP01	D0057	SP23 **
Change of Supplier	D0055	SP04	D0057	SP32 **
Raising of Objection	D0064	SP05	D0066	SP33
Removal of Objection	D0068	SP06	D0069	SP34
Change of Supplier details	D0205	SP02	D0203	SP30
Contact Notice request	D0271	SP10	D0272	SP14
Withdrawal of Registration by New Supplier to Specified Metering Point	D0358	SP91	D0360	SP93
DCC Service Flag	D0350	DC01	D0351	DC11

** Since it is possible to have both SP01 and SP04 instructions in a single D0055 flow the instruction type for rejections, where the incoming instruction type is invalid, will be based upon the first valid instruction type in the file. If all instruction types in the file are invalid the rejection instruction type code will be SP23.

10. 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.

11.	<p>Where a D0055 or 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.</p>
12.	<p>KEY VALIDATIONS FOR D0324</p> <p>The validation used by MPRS on receipt of a D0324 from the GDCC is:</p> <ul style="list-style-type: none"> • 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 licensee as at the Green Deal EFD • The new Green Deal is not received for an MPAN during the lockout period of a change of supply • If there is a pending change of supply which starts before the Green Deal effective to date, then the future supplier must be a GD Licensee as at the EFD of the GD. • The LLF Class assigned to the MPAN as at the EFD of the GD is an Import type LLF Class (i.e. MS Specific LLF Class Indicator is 'A' or 'B').
13.	<p>KEY VALIDATIONS FOR SMART DATA</p> <p>Validating new and old format flows:</p> <p>DTC v10.6 will be updated to DTC v10.7 following the completion of the overnight batch process on 07 November 2013.</p> <p>Incoming</p> <p>The header date/time from the D0205 flow will be used to validate the old and new instructions within the flow.</p> <ul style="list-style-type: none"> • If a new style instruction is received with the file header date set to < 08 November 2013 the smart data items (whether populated or null) will be ignored • If the file header date is => 08 November 2013 and the instruction is in the new format the instruction will be accepted (assuming all included items are valid). • If an old style instruction is received with the file header set to => 08 November 2013 it will be rejected with rejection reason code 38. • If the file header date is < 08 November 2013 and the instruction is in the old format the instruction will be accepted (assuming all included items are valid). <p>Outgoing</p> <p>All outbound flows produced on or after 8 November 2013 will include the new smart data items where appropriate.</p>

	<p>MPRS validates the smart data as follows:</p> <ul style="list-style-type: none"> • 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. • The only validation on the IHD Install status is that it is I, D or E. There is no concept in MPRS of any valid sequence of events. • Smart data can only be set on the D0205 flow, NOT in the registration flow D0055. • 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
<p>14.</p>	<p>KEY VALIDATIONS FOR REGISTRATION WITHDRAWAL</p> <p>MPRS will validate D0358 files received by MPRS after 18:00 on 6 November. D0358 files received before this time will be rejected with rejection reason code '38'</p> <p>MPRS will reject a D0358 (with rejection reason code) if:</p> <ul style="list-style-type: none"> • A registration does not exist for the MPAN for the originating Supplier (code 22) • EFD on D0358 does not match the EFD of the new Supplier registration stored in MPRS (code 35) • Registration Transaction Number on D0358 does not match that of the New Supplier registration (code 35) • New Supplier has already withdrawn their registration (code 20) • If an objection has already been upheld (code 20) • MPAN Core does not exist (code 3) • MPAN is disconnected (code 23) • A previous registration does not exist (code 27) • Old Supplier attempts to withdraw (code 59) • MPRS date <2 working days before the EFD of the new Registration (code 60) <p>If a D0068 is received by MPRS after a successful registration withdrawal the D0068 will be rejected with code '61'</p>

15.	<p>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.</p> <p>Minimal validation will be performed in relation to the Effective From Date and the Requesting Supplier.</p>
16.	<p>KEY VALIDATIONS FOR P300 CHANGES P300 introduces the aggregated half hourly Measurement Classes of F and G. These will be validated in the same way as Measurement Classes C and E where half hourly agents must also be provided. No Configuration Profile records will be present for the same data range as the half hourly Measurement Classes.</p> <p>For go-live, any instruction containing Measurement Classes F or G received by MPRS before close of day on Wednesday 4th November will be rejected, irrespective of the Measurement Class Effective From Date.</p>
17.	<p>KEY VALIDATIONS FOR CP1434 CHANGES CP1434 changes the format of LLFC IDs from numeric to alpha numeric.</p> <p>For go-live, any instruction containing alpha characters received by MPRS before close of day on Wednesday 29th June 2016 will be rejected, irrespective of the LLFC ID Effective From Date. The Effective From Date of any alpha numeric LLFC IDs received on or after 30 June 2016 cannot be < 30 June 2016.</p> <p>Therefore, the earliest Suppliers will receive alpha numeric LLFC IDs will be overnight on 30 June 2016.</p>
18.	<p>UPRN SUPPRESSION From 30 June 2016 DTC CP 3486 requires all outbound supplier flows containing a UPRN data item to have the UPRN suppressed.</p>

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.
ADVANCE REGISTRATION PERIOD	28	The maximum number of calendar days in advance that a Change of Supplier can be registered.
EARLIEST SUPPLY START DATE	1	The value defined by the 'EARLIEST SSD' Trading Parameter (as at the MPRS System Date) will be used to validate that the Registration Effective From Date is greater than the Entry Date by the number of calendar days specified.
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.
OBJECTION PERIOD	5	The number of working days within which an objection can be raised.
OBJECTION RESOLUTION PERIOD	1	The number of working days within which the objection to a registration can be removed.
RETROSPECTIVE CHANGE PERIOD	310	The maximum number of working days allowed between a MP Details or Appointment change being made and entered onto MPRS.
REGISTRATION LOCKOUT PERIOD	10	The minimum number of working days allowed between registrations for a metering point.
REGISTRATION WITHDRAWAL PERIOD	2	Minimum number of working days before the Registration Effective From Date that a registration can be withdrawn

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

Validation Rules

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

Validation Rules

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	No Suppliers to create contact notice for

MPRS



Validation Rules

CODE	MEANING
20	Requesting Supplier is not the latest or previous Supplier
20	Supplier has never been registered to Metering Point
20	Supplier not registered to Metering Point on date of Metering Point data change
20	Withdrawal is invalid because Objection has been upheld
20	New Supplier has already withdrawn the registration
21	Registration under objection: no Metering Point data changes allowed
21	Registration has already been objected to
22	Registration which is the subject of the instruction was not found
22	There is no previous Supplier to create contact notice for
22	Old Registration not found
22	SP04 instruction received but no existing Registration found on new Effective From Date
23	Metering Point is Disconnected so no changes are allowed
25	Objection not from old Supplier
25	Objection Removal request not from old Supplier
26	Objection resolution period violated
26	Registration is not under Objection
27	Old Registration not found
28	Registration within lockout period
30	Objection period violated
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
35	Registration Transaction Number non numeric
35	Registration Transaction Number too long
35	Registration Transaction Number not provided

Validation Rules

CODE	MEANING
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
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
43	Metering Point is still traded on ERS
44	There is an outstanding Objection
44	Objection Resolution Period has not expired yet
45	Already supplying to this metering point
45	SP01 instruction received but a Supplier is already registered to this Metering Point

Validation Rules

CODE	MEANING
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
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
60	Withdrawal request not received by latest required working days prior to SSD

MPRS



Validation Rules

CODE	MEANING
61	Registration has been Withdrawn

APPENDIX A SCENARIO – UPDATING SMSO ID AND EFD

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.

