Rules for the Completion of Electricity Market Messages

Operational Document

Version 1.0



RETAIL ENERGY CODE

RETAIL ENERGY CODE

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Change History

Version Number	Implementation Date	Reason for Change
1.0	06 November	R0266 - REC Data Specification Clarifications

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1. INTRODUCTION

This operational document defines rules that are to be adhered to when populating the Market Messages listed within this document.

The rules may be applicable at the Market Message, scenario variant, data group or data item level. Where the rule applies only in certain circumstances, these circumstances are defined.

Unless stated otherwise, the rules apply to all versions of the Market Message.

The receipt of a Market Message where the rule/s as defined in this document have not been adhered to by the originator may result in rejection of the flow, a request for further information by the recipient or inappropriate processing of the Market Message.

Note that where the structure of the Market Message is reproduced in this document, it is done so to clarify the application of the rules and should not be used as the definitive statement of the structure of the Market Message.

Section 5 MM00156 / D0268 (Half Hourly Meter Technical Details is applicable to both MHHS and Non-MHHS Metering Points.

All other sections are applicable to Non-MHHS Metering Points only, unless involving an Asset Metering Virtual Lead Party in which case they become applicable to MHHS Metering Points also.

2. MM00043 / D0148 (NOTIFICATION OF CHANGE TO OTHER PARTIES)

RULES FOR COMPLETION OF MM00043 / D0148 – PART 1

1. Whenever there has been a change of agent within an Energy Supplier or (AMVLP) registration, the incumbent Supplier or AMVLP will be aware of, and therefore must provide the original appointment date for any existing/incumbent agent.

2. Where there has been a change of HH Data Collector during the Energy Supplier's registration, the Energy Supplier is only required to provide the incoming data collector with the details of the current Data Aggregator. The examples contained in this document reflect this. However, the Energy Supplier may choose to provide the HH Data Aggregator history. In such cases, the Energy Supplier should follow the examples for NHH Metering Points where there has been a change of Data Aggregator.

3. The Meter Operator Agent is not notified of the details of the Data Aggregator appointment.

4. Where there is a change of Data Aggregator concurrent with a Switch or a New Connection, the new Data Collector will only be informed on the new Data Aggregator appointment.

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5. Where there is a Change of Measurement Class concurrent with the Change of Agents, the Effective from date of the new Agent appointments must be the date of the Change of Measurement Class.

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The following table lists the scenarios where MM00043/D0148 is used and the example of how MM00043/D0148 should be populated in that scenario. The detailed rules to be applied for the completion of MM00043/D0148 in each example are shown in Part 2 of this D0148 section.

	Scenario	Example	Notes
1	**ENERGY SUPPLIER CHANGES ITS METER OPERATOR AGENT**		
1.1	To New Meter Operator Agent *(Single Instance)*	A	
1.2	To Incumbent Data Collector *(Single Instance)*	B	
2	**ENERGY SUPPLIER CHANGES ITS DATA COLLECTOR**		
2.1	To Incumbent Meter Operator Agent *(Single Instance)*	C	
2.2a	To New Data Collector *(Single Instance applying to:* *HH MPANs or,* *NHH MPANs where there has been NO change of Data Aggregator during the Energy Supplier's registration)*	D	
2.2b	To New Data Collector *(Single Instance applying to NHH MPANs where there has been a change of Data Aggregator during the Energy Supplier's registration)*	E	
3	**ENERGY SUPPLIER CHANGES ITS DATA AGGREGATOR**		
3.1	To incumbent Meter Operator Agent	Nothing	
3.2	To Incumbent Data Collector *(Single Instance)*	F	
4	**ENERGY SUPPLIER CHANGES ITS METER OPERATOR AGENT AND DATA COLLECTOR**		
4.1.1	To New Meter Operator Agent *(Single Instance)*	G	
4.1.2	To New Meter Operator Agent *(Incremental flows – Sequence 1)* Flow 1: Sent after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector Flow 2: After acknowledgement of appointment from new Data Collector	 A C	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector
4.1.3	To Old and New Meter Operator Agents *(Incremental flows – Sequence 2)*		

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	Scenario	Example	Notes
	Flow 1: Sent to old Meter Operator Agent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent Flow 2: Sent to new Meter Operator Agent after acknowledgement of appointment from new Meter Operator Agent	C A	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent In both flows of this sequence, details are provided of the new, incoming Data Collector. In Flow 2, this Data Collector is marked as the 'current' data collector
4.2.1a	To New Data Collector *(Single Instance applying to:* *HH MPANs or,* *NHH MPANs where there has been NO change of Data Aggregator during the Energy Supplier's registration)*	H	
4.2.1b	To New Data Collector *(Single Instance applying to NHH MPANs where there has been a change of Data Aggregator during the Energy Supplier's registration)*	I	
4.2.2a	To New Data Collector *(Incremental flows – Sequence 1 applying to:* *HH MPANs or,* *NHH MPANs where there has been no change of Data Aggregator during the incumbent Energy Supplier's registration)* Flow 1: Sent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent Flow 2: After acknowledgement of appointment from new Meter Operator Agent	 D B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent
4.2.2b	To New Data Collector *(Incremental flows – Sequence 1 applying to NHH MPANs where there has been a change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent Flow 2: After acknowledgement of appointment from new Meter Operator Agent	 E B	

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	Scenario	Example	Notes
4.2.3a	To Old and New Data Collectors *(Incremental flows – Sequence 2 applying to:* *HH MPANs or,* *NHH MPANs where there has been no change of Data Aggregator during the incumbent Energy Supplier's registration)*		This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector In both flows of sequences 4.2.3 a and b, details are provided of the new, incoming Meter Operator. In Flow 2, this Meter Operator Agent is marked as the 'current' Meter Operator Agent
	Flow 1: Sent to Old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector	B	
	Flow 2: Sent to New Data Collector after acknowledgement of appointment from new Data Collector	D	
4.2.3b	To Old and New Data Collectors *(Incremental flows – Sequence 2 applying to NHH MPANs where there has been a change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector Flow 2: Sent to new Data Collector after acknowledgement of appointment from new Data Collector	 B E	
5	**ENERGY SUPPLIER CHANGES ITS METER OPERATOR AGENT AND DATA AGGREGATOR**		
5.1	To New Meter Operator Agent *(Single Instance)*	A	
5.2.1	To Incumbent Data Collector *(Single Instance)*	J	
5.2.2	To Incumbent Data Collector *(Incremental flows – Sequence 1)* Flow 1: Sent after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Aggregator Flow 2: After acknowledgement of appointment from new Data Aggregator	 B F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Aggregator
5.2.3	To Incumbent Data Collector *(Incremental flows – Sequence 2)*		This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator

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	Scenario	Example	Notes
	Flow 1: Sent after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent Flow 2: After acknowledgement of appointment from new Meter Operator Agent	F B	new Meter Operator Agent
6	**ENERGY SUPPLIER CHANGES ITS DATA COLLECTOR AND DATA AGGREGATOR**		
6.1	To Incumbent Meter Operator Agent *(Single Instance)*	C	
6.2.1a	To New Data Collector *(Single Instance applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)*	K	
6.2.1b	To New Data Collector *(Single Instance applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)*	L	
6.2.2a	To New Data Collector *(Incremental flows - Sequence 1 applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Data Aggregator Flow 2: After acknowledgement of appointment from new Data Aggregator	 D F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Data Aggregator
6.2.2b	To New Data Collector *(Incremental flows – Sequence 1 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Data Aggregator Flow 2: After acknowledgement of appointment from new Data Aggregator	 E F	

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	Scenario	Example	Notes
6.2.3a	To Old and New Data Collectors *(Incremental flows - Sequence 2 applying to HH MPANs)* Flow 1: Sent to the Old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Data Collector Flow 2: Sent to the New Data Collector after acknowledgement of appointment from new Data Collector	 F D	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Data Collector In both flows of sequences 6.2.3 a, b and c, details are provided of the new, incoming Data Aggregator. In Flow 2 of each sequence, this Data Aggregator is marked as the 'current' Data Aggregator
6.2.3b	To Old and New Data Collectors *(Incremental flows - Sequence 2 applying to NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the Old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Data Collector Flow 2: Sent to the New Data Collector after acknowledgement of appointment from new Data Collector	 F U	
6.2.3c	To Old and New Data Collectors *(Incremental flows – Sequence 2 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the Old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Data Collector Flow 2: Sent to the New Data Collector after acknowledgement of appointment from new Data Collector	 F V	
7	**ENERGY SUPPLIER CHANGES ITS DATA COLLECTOR, METER OPERATOR AGENT AND DATA AGGREGATOR**		
7.1.1	To New Meter Operator Agent *(Single Instance)*	G	
7.1.2	To New Meter Operator Agent *(Incremental flows – Sequence 1)* Flow 1: Sent after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector Flow 2: After acknowledgement of appointment from new Data Collector	 A C	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector The acknowledgement of appointment from the new Data Aggregator could be received at any time.

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	Scenario	Example	Notes
7.1.3	To Old and New Meter Operator Agents *(Incremental flows – Sequence 2)*		This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent The acknowledgement of appointment from the new Data Aggregator could be received at any time. In both flows of this sequence, details are provided of the new, incoming Data Collector. In Flow 2, this Data Collector is marked as the 'current' Data Collector
	Flow 1: Sent to the Old Meter Operator Agent after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent Flow 2: Sent to the New Meter Operator Agent after acknowledgement of appointment from new Meter Operator Agent	C A	
7.2.1a	To New Data Collector *(Single instance applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)*	M	
7.2.1b	To New Data Collector *(Single Instance applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)*	N	
7.2.2a	To New Data Collector *(Incremental flows - Sequence 1 applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Aggregator Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	 D B F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent new Data Aggregator

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	Scenario	Example	Notes
7.2.2b	To New Data Collector *(Incremental flows - Sequence 1 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Aggregator Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	 E B F	
7.2.3a	To New Data Collector *(Incremental flows - Sequence 2 applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	 D F B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Data Aggregator new Meter Operator Agent
7.2.3b	To New Data Collector *(Incremental flows - Sequence 2 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator	 E	

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	Scenario	Example	Notes
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent	F	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	B	
7.2.4a	To Old and New Data Collector *(Incremental flows - Sequence 3 applying to:* *HH MPANs or,* *NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)*		This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector new Data Aggregator In flows 1 and 2 of sequences 7.2.4 a and b, details are provided of the new, incoming Meter Operator Agent. In Flow 2 of both sequences, this Meter Operator Agent is marked as the 'current' Meter Operator Agent
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector and new Data Aggregator	B	
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from the new Data Aggregator	D	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	F	
7.2.4b	To Old and New Data Collector *(Incremental flows - Sequence 3 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)*		
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector and new Data Aggregator	B	
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from the new Data Aggregator	W	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	F	
7.2.5a	To Old and New Data Collector *(Incremental flows - Sequence 4 applying to HH MPANs)*		

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	Scenario	Example	Notes
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector and new Data Aggregator Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Data Collector Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	B F D	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Aggregator new Data Collector In flow 3 of sequences 7.2.5 a, b and c, details are provided of the new, incoming Meter Operator Agent and Data Aggregator. In both cases these are marked as the 'current' Agent
7.2.5b	To Old and New Data Collector *(Incremental flows - Sequence 4 applying to NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector and new Data Aggregator Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Data Collector Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	 B F U	
7.2.5c	To Old and New Data Collector *(Incremental flows - Sequence 4 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)* Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector and new Data Aggregator Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Data Collector Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	 B F V	

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	Scenario	Example	Notes
7.2.6a	To Old and New Data Collector *(Incremental flows - Sequence 5 applying to HH MPANs)* Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Meter Operator Agent new Data Collector In flow 3 of sequences 7.2.6 a, b and c, details are provided of the new, incoming Meter Operator Agent and Data Aggregator. In both cases these are marked as the 'current' Agent
	Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Collector	B	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	D	
7.2.6b	To Old and New Data Collector *(Incremental flows - Sequence 5 applying to NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)*		
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	
	Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Collector	B	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	U	
7.2.6c	To Old and New Data Collector *(Incremental flows - Sequence 5 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)*		
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	
	Flow 2: Sent to the old Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Collector	B	

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	Scenario	Example	Notes
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Collector	V	
7.2.7a	To Old and New Data Collector *(Incremental flows - Sequence 6 applying to HH MPANs)*		This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Data Collector new Meter Operator Agent 2. In flow 2 of sequences 7.2.7 a, b and c, details are provided of the new, incoming Data Aggregator. In Flow 2, this Data Aggregator is marked as the 'current' Data Aggregator
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from the new Meter Operator Agent	D	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	B	
7.2.7b	To Old and New Data Collector *(Incremental flows - Sequence 6 applying to NHH MPANs where there has been NO previous change of Data Aggregator during the Energy Supplier's registration)*		
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from the new Meter Operator Agent	U	
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	B	
7.2.7c	To Old and New Data Collector *(Incremental flows - Sequence 6 applying to NHH MPANs where there has been a previous change of Data Aggregator during the Energy Supplier's registration)*		
	Flow 1: Sent to the old Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Collector	F	

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	Scenario	Example	Notes
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	V B	
8	**ENERGY SUPPLIER CHANGES ITS DATA COLLECTOR, METER OPERATOR AGENT AND DATA AGGREGATOR COINCIDENT WITH A SWITCH**		
8.1.1	To New Meter Operator Agent *(Single Instance)*	G	
8.1.2	To New Meter Operator Agent *(Incremental flows – Sequence 1)* Flow 1: Sent after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector Flow 2: After acknowledgement of appointment from new Data Collector	 O C	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector The acknowledgement of appointment from the new Data Aggregator could be received at any time.
8.2.1	To New Data Collector *(Single Instance)*	P	
8.2.2	To New Data Collector ***(Incremental flows - Sequence 1)*** Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Aggregator Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	 Q B F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent new Data Aggregator
8.2.3	To New Data Collector *(Incremental flows - Sequence 2)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator	 Q	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Data Aggregator new Meter Operator Agent

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	Scenario	Example	Notes
	Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	F B	
8.2.4	To New Data Collector *(Incremental flows - Sequence 3)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent and Data Collector but prior to acknowledgement of appointment from new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator	 R F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector new Data Aggregator
8.2.5	To New Data Collector *(Incremental flows - Sequence 4)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from the new Data Collector and new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent	 S B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Data Collector new Meter Operator Agent
9	**ENERGY SUPPLIER APPOINTS ITS DATA COLLECTOR, METER OPERATOR AGENT AND DATA AGGREGATOR ON A NEW CONNECTION**		
9.1.1	To New Meter Operator Agent *(Single Instance)*	C	
9.2.1	To New Data Collector *(Single Instance)*	J	
9.2.2	To New Data Collector *(Incremental flows - Sequence 1)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent and Data Collector but prior to acknowledgement of appointment from new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator	 B F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector new Data Aggregator
9.2.3	To New Data Collector *(Incremental flows - Sequence 2)*		

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	Scenario	Example	Notes
	Flow 1: Sent to the new Data Collector after acknowledgement of appointment from the new Data Collector and new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent	F B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Data Collector new Meter Operator Agent
10	**ENERGY SUPPLIER APPOINTS ITS DATA COLLECTOR, METER OPERATOR AGENT AND DATA AGGREGATOR ON A CHANGE OF MEASUREMENT CLASS FROM NHH TO HH**		
10.1.1	To New Meter Operator Agent *(Single Instance)*	T	Where the Energy Supplier chooses not to send the details of the old NHH Data Collector, then example G would be used in this circumstance. In this circumstance, Group 276 would be populated with the Change of Measurement Class date minus one day.
10.1.2	To New Meter Operator Agent *(Incremental flows – Sequence 1)* Flow 1: Sent after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from new Data Collector Flow 2: After acknowledgement of appointment from new Data Collector	 A C	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector The acknowledgement of appointment from the new Data Aggregator could be received at any time.
10.2.1	To New Data Collector *(Single Instance)*	J	
10.2.2	To New Data Collector ***(Incremental flows - Sequence 1)*** Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent but prior to acknowledgement of appointment from the new Data Aggregator	 D B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Meter Operator Agent new Data Aggregator

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	Scenario	Example	Notes
	Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Data Aggregator	F	
10.2.3	To New Data Collector *(Incremental flows - Sequence 2)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Data Collector but prior to acknowledgement of appointment from new Meter Operator Agent and new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Agent Flow 3: Sent to the new Data Collector following receipt of acknowledgement from the new Meter Operator Agent	 D F B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Collector new Data Aggregator new Meter Operator Agent
10.2.4	To New Data Collector *(Incremental flows - Sequence 3)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent and Data Collector but prior to acknowledgement of appointment from new Data Aggregator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Data Aggregator	 R F	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Meter Operator Agent new Data Collector new Data Aggregator
10.2.5	To New Data Collector *(Incremental flows - Sequence 4)* Flow 1: Sent to the new Data Collector after acknowledgement of appointment from the new Data Collector and new Data Aggregator but prior to acknowledgement of appointment from the new Meter Operator Flow 2: Sent to the new Data Collector after acknowledgement of appointment from new Meter Operator Agent	 S B	This sequence of flows assumes that the acknowledgements of appointment are received from the new agents in the following order: new Data Aggregator new Data Collector new Meter Operator Agent

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RULES FOR COMPLETION OF MM00043 / D0148 – PART 2

Greyed out cells stating ‘Not Present’ indicate that this information is not required for the specified context and should, therefore, not be populated/sent.

The Energy Supplier must send only that data specified in the following examples.

Example A

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the **CURRENT** DC
					1						Agent Status	**E** - Existing
272	Effective from Date	1			G							
						1					Effective from Date {DCA}	Original appointment date of the DC
273	*Effective to Date*	*0*			*G*							*Not present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the **OLD** Mop
					1						Agent Status	**O** - Old
275	*Effective from Date*	*0*			*G*							*Not present*
276	Effective to Date	1			G							
						1					Effective to Date {MOA}	CoMOp date minus one day
277	*Data Aggregator Details*	*0*		*G*								*Not present*

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
278	*Effective from Date*	*0*			*G*							*Not present*
279	*Effective to Date*	*0*			*G*							*Not present*

Example B

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	*Data Collector Details*	*0*		*G*								*Not Present*
272	*Effective from Date*	*0*			*G*							*Not Present*
273	*Effective to Date*	*0*			*G*							*Not Present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the **New** MOp
					1						Agent Status	**N** - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Effective from date of New MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

Example C

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the **NEW** DC
					1						Agent Status	**N** - New
272	Effective from Date	1			G							
						1					Effective from Date {DCA}	Effective from date of New DC
273	*Effective to Date*	*0*			*G*							*Not Present*
274	*Meter Operator Details*	*0*		*G*								*Not Present*
275	*Effective from Date*	*0*			*G*							*Not Present*
276	*Effective to Date*	*0*			*G*							*Not Present*
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

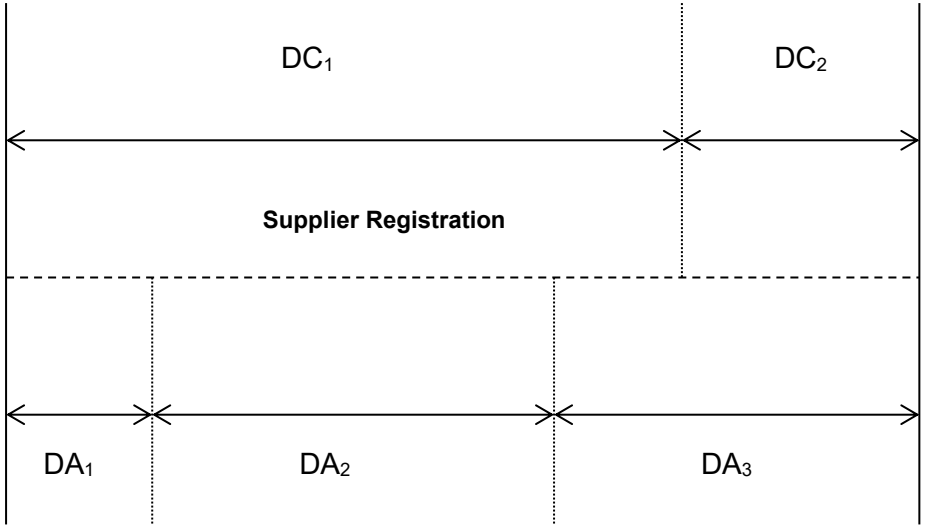
Example D

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the **OLD DC**
					1						Agent Status	**O** - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the **CURRENT** MOA
					1						Agent Status	**E** - Existing
275	Effective from Date	1			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	**Id of the** CURRENT **DA**
					1						Agent Status	**E** – Existing
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA
279	*Effective to Date*	*0*			*G*							*Not Present*

Example E



The following example assumes that during the Energy Supplier's registration there have been two previous changes of DA, the first from DA1 to DA2 and the second from DA2 to DA3. If there have been further changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of DA2
					1						Agent Status	O - Old
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	Effective to Date	2			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective to Settlement Date {DAA}	Date of CoDA2 minus 1day
277	Data Aggregator Details	3		G								
					1						Data Aggregator Id	Id of DA3
					1						Agent Status	E - Existing
278	Effective from Date	3			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA2
279	*Effective to Date*	*0*			*G*							*Not Present*

Example F

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	*Data Collector Details*	*0*		*G*								*Not Present*
272	*Effective from Date*	*0*			*G*							*Not Present*
273	*Effective to Date*	*0*			*G*							*Not Present*
274	*Meter Operator Details*	*0*		*G*								*Not Present*
275	*Effective from Date*	*0*			*G*							*Not Present*
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of NEW DA
					1						Agent Status	N - New
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Effective from Date of New DA
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example G

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the NEW DC
					1						Agent Status	N - New
272	Effective from Date	1			G							
						1					Effective from Date {DCA}	Effective from date of New DC
273	*Effective to Date*	*0*			*G*							*Not Present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the OLD MOp
					1						Agent Status	O - Old
275	*Effective from Date*	*0*			*G*							*Not Present*
276	Effective to Date	1			G							
						1					Effective to Date {MOA}	CoMOp date minus one day
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

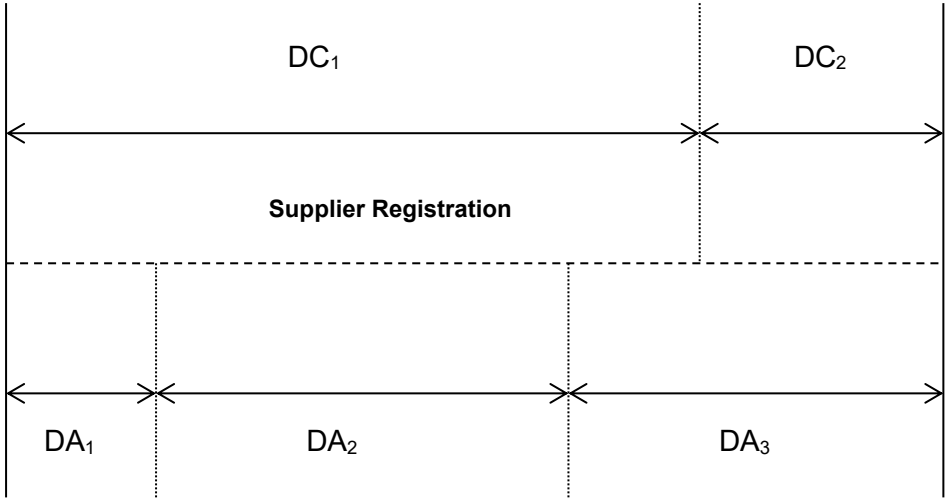
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Example H

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC date minus one day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the NEW MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Effective from date of New MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of the CURRENT DA
					1						Agent Status	E - Existing
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of the DA
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example I



The following example assumes that during the Energy Supplier's registration there have been two previous changes of DA, the first from DA1 to DA2 and the second from DA2 to DA3. If there have been further changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the New MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of DA2
					1						Agent Status	O - Old
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	Effective to Date	2			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA2 minus 1day
277	Data Aggregator Details	3		G								
					1						Data Aggregator Id	Id of DA3
					1						Agent Status	E - Existing
278	Effective from Date	3			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA2
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example J

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	*Data Collector Details*	*0*		*G*								*Not Present*
272	*Effective from Date*	*0*			*G*							*Not Present*
273	*Effective to Date*	*0*			*G*							*Not Present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the NEW MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Effective from date of the New MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of the NEW DA
					1						Agent Status	N - New
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Effective from date of the New DA
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example K

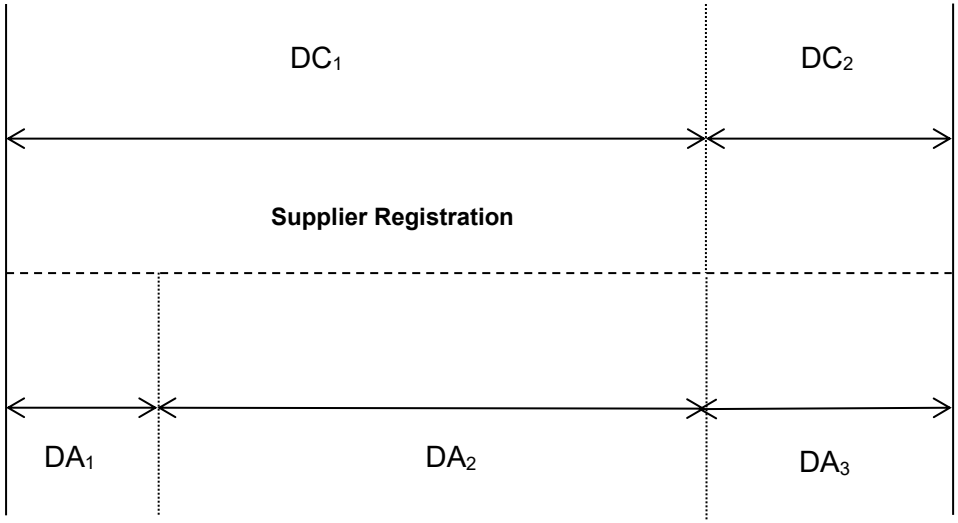
Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O- Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC date minus one day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of Old DA
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Date of old DA appointment
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA minus one day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of NEW DA
					1						Agent Status	N - New
278	Effective from Date	1			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective from Settlement Date {DAA}	Date of CoDA
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example L



The following example assumes that during the Energy Supplier's registration there has been one previous change of DA (from DA1 to DA2) prior to the change of DA coincident with the change in Data Collector (the change from DA2 to DA3). If there have been further previous changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of DA2
					1						Agent Status	O - Old
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	Effective to Date	2			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA2 minus 1day
277	Data Aggregator Details	3		G								
					1						Data Aggregator Id	Id of New DA3
					1						Agent Status	N - new
278	Effective from Date	3			G							
						1					Effective from Settlement Date {DAA}	Effective from date of New DA3
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example M

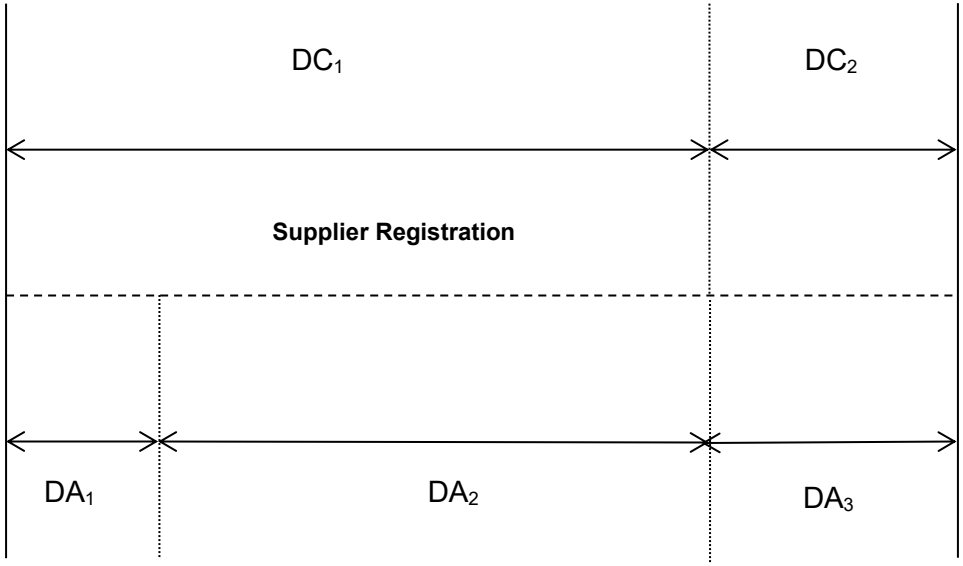
Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Comments
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the NEW MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Effective from date of the New MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of Old DA
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Date of old DA appointment
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA minus one day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of NEW DA
					1						Agent Status	N - New
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Comments
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example N



The following example assumes that during the Energy Supplier's registration there has been one previous change of DA (from DA1 to DA2) prior to the change of DA coincident with the change in Data Collector (the change from DA2 to DA3). If there have been further previous changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective to Date {DCA}	CoDC minus one calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the NEW MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Effective from date of new MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of DA2
					1						Agent Status	O - Old
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	Effective to Date	2			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA2 minus 1day
277	Data Aggregator Details	3		G								
					1						Data Aggregator Id	Id of New DA3
					1						Agent Status	N - new
278	Effective from Date	3			G							
						1					Effective from Settlement Date {DAA}	Effective from date of New DA3
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example O

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	*Data Collector Details*	*0*		*G*								*Not Present*
272	*Effective from Date*	*0*			*G*							*Not Present*
273	*Effective to Date*	*0*			*G*							*Not Present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the OLD MOp
					1						Agent Status	O - Old
275	*Effective from Date*	*0*			*G*							*Not Present*
276	Effective to Date	1			G							
						1					Effective to Date {MOA}	SSD (G270) minus one calendar day
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

Example P

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending (New) Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective to Date {DCA}	SSD (G270) minus 1 calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the NEW MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	SSD (G270) of the NS
276	*Effective to Date*	*0*			*G*							*Not Present*
						1					Effective to Date {MOA}	
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of the NEW DA
					1						Agent Status	N - New
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	SSD (G270) of the NS
279	*Effective to Date*	*0*			*G*							*Not Present*

Example Q

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending (New) Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	*Effective to date*	*1*			G							
						1					Effective to Date {DCA}	SSD of new Supplier minus 1 calendar day
274	*Meter Operator Details*	*0*		*G*								*Not present*
276	*Effective to Date*	*0*			*G*							*Not Present*

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

Example R

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending (New) Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	SSD (G270) minus 1 calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the New MOp
					1						Agent Status	N - New
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	SSD of the sending (New) Supplier (G270)
276	*Effective to Date*	*0*			*G*							*Not Present*
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example S

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Comments
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC date minus one day
274	*Meter Operator Details*	*0*		*G*								*Not Present*
275	*Effective from Date*	*0*			*G*							*Not Present*
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of New DA
					1						Agent Status	N - New
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Date of old DA appointment
279	*Effective to Date*	*0*			*G*							*Not Present*

Example T

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the Old (NHH) DC

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoMC date minus one day
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the New (HH) DC
					1						Agent Status	N - New
272	Effective from Date	1			G							
						1					Effective from Date {DCA}	CoMC date
273	*Effective to Date*	*0*			*G*							*Not Present*
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the Old MOp
					1						Agent Status	O - Old
						1					Effective to Date {MOA}	CoMC date minus one day
277	*Data Aggregator Details*	*0*		*G*								*Not Present*
278	*Effective from Date*	*0*			*G*							*Not Present*
279	*Effective to Date*	*0*			*G*							*Not Present*

Example U

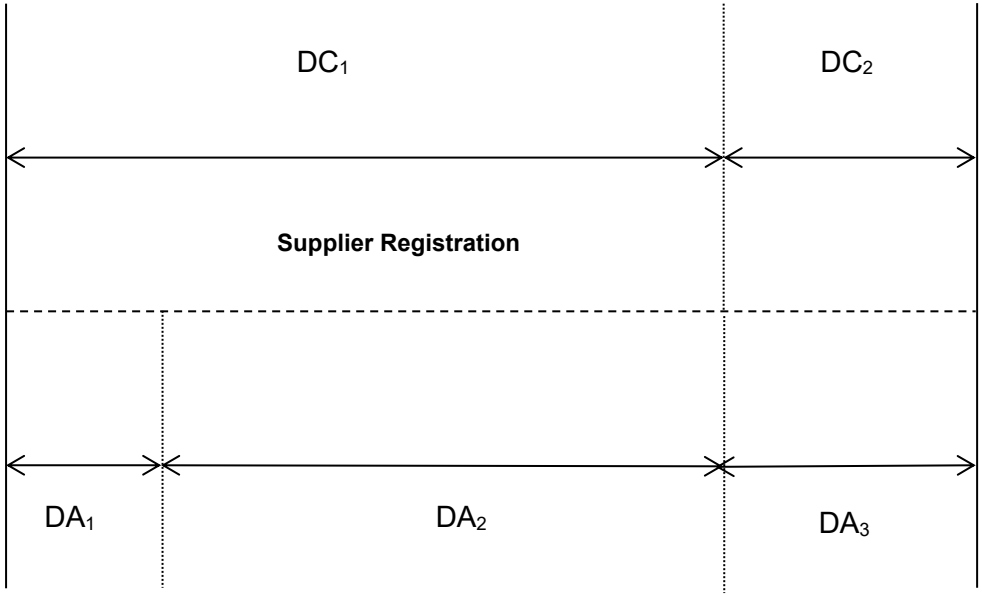
Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC
					1						Agent Status	O- Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
						1					Effective to Date {DCA}	CoDC date minus one day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of Old DA
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Date of old DA appointment
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA minus one day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of CURRENT DA
					1						Agent Status	E - Existing
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Effective from date of Current DA
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example V



The following example assumes that during the Energy Supplier's registration there has been one previous change of DA (from DA1 to DA2) prior to the change of DA coincident with the change in Data Collector (the change from DA2 to DA3). If there have been further previous changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

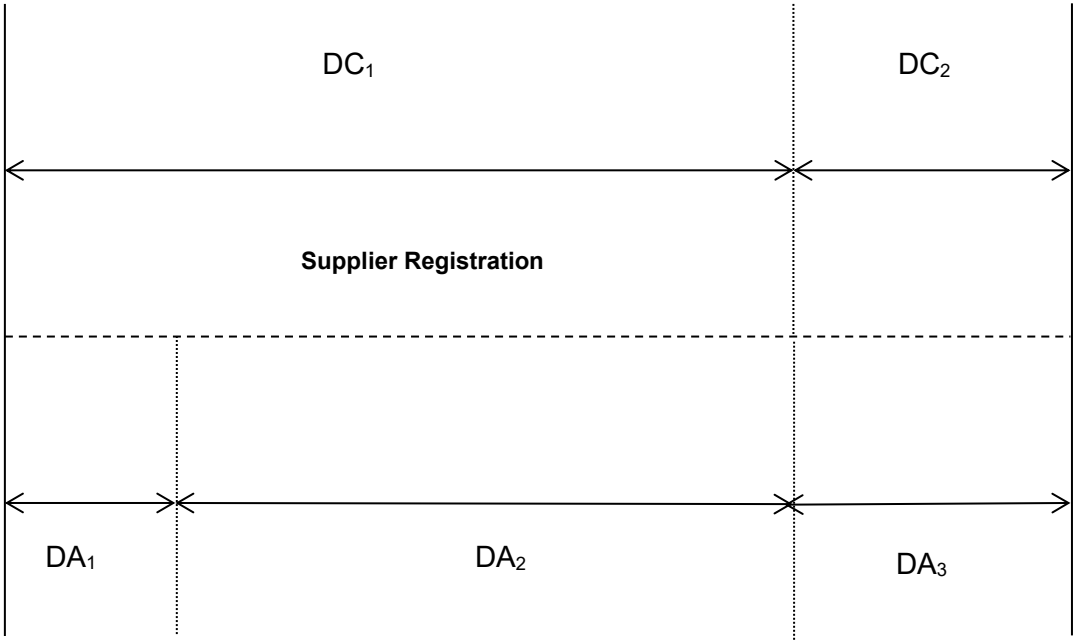
Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id of DA2
					1						Agent Status	O - Old
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	Effective to Date	2			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA2 minus 1day
277	Data Aggregator Details	3		G								
					1						Data Aggregator Id	Id of DA3
					1						Agent Status	E - Existing
278	Effective from Date	3			G							
						1					Effective from Settlement Date {DAA}	Effective from date of Current DA3
279	*Effective to Date*	*0*			*G*							*Not Present*

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Example W



The following example assumes that during the Energy Supplier's registration there has been one previous change of DA (from DA1 to DA2) prior to the change of DA coincident with the change in Data Collector (the change from DA2 to DA3). This flow is sent before the Energy Supplier has received confirmation of appointment from DA3. If there have been further previous changes of DA, then details of all of the DAs shall be included in the flow, by repeating groups 277 to 279 as appropriate

Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
270	MPAN Cores	1	G									
				1							MPAN Core	
				1							Effective from Settlement Date {REGI}	SSD of the sending Supplier
271	Data Collector Details	1		G								
					1						Data Collector Id	Id of the OLD DC1

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Group	Group Description	Occurrence	L1	L2	L3	L4	L5	L6	L7	L8	Item Name	Rule
					1						Agent Status	O - Old
272	*Effective from Date*	*0*			*G*							*Not Present*
273	Effective to Date	1			G							
						1					Effective to Date {DCA}	CoDC minus one calendar day
274	Meter Operator Details	1		G								
					1						Meter Operator Id	Id of the CURRENT MOp
					1						Agent Status	E - Existing
275	Effective from Date	1			G							
						1					Effective from Date {MOA}	Original appointment date of MOp
276	*Effective to Date*	*0*			*G*							*Not Present*
277	Data Aggregator Details	1		G								
					1						Data Aggregator Id	Id of DA1
					1						Agent Status	O - Old
278	Effective from Date	1			G							
						1					Effective from Settlement Date {DAA}	Original appointment date of DA1
279	Effective to Date	1			G							
						1					Effective to Settlement Date {DAA}	Date of CoDA1 minus 1day
277	Data Aggregator Details	2		G								
					1						Data Aggregator Id	Id ofT DA2
					1						Agent Status	E - Existing
278	Effective from Date	2			G							
						1					Effective from Settlement Date {DAA}	Date of CoDA1
279	*Effective to Date*	*0*			*G*							*Not Present*

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3. MM00056 / D0151 (TERMINATION OF APPOINTMENT OR CONTRACT BY SUPPLIER)

Termination is deemed to mean the ending of an existing contract for services; cancellation is deemed to mean the notification that an appointment is deemed to have never existed (such as on a failed Switch).

When terminating an Agent appointment using MM00056/D0151, the ETD{Agent} should be the last calendar day on which the Agent has responsibility for the Metering Point. The termination takes effect at midnight at the end of the day specified in the ETD{Agent}. On a Switch, this will normally be SSD-1 calendar day.

When cancelling an Agent appointment with an EFD{Agent} in the future, again using MM00056/D0151, the ETD{Agent} should be the calendar day before the EFD{Agent} provided on the original MM00065/D0155 orMM00063/D0153. The Agent is to interpret a MM00056/D0151 which contains an ETD{Agent} one calendar day before the EFD{Agent} received on an earlier MM00065/D0155 as a cancellation of appointment.

The 'Termination Reason' shall be populated as follows:

- 'LC' where the Energy Supplier loses the supply contract;
- 'CA' where the Energy Supplier has appointed the Agent in error); or
- 'OB' where the Gaining Energy Supplier has appointed the Agent but the registration has been objected to and upheld, or the registration has been successfully withdrawn.

If an Agent acted as the Agent for the previous Energy Supplier for the relevant Metering Point, the Agent should treat the notification of cancellation, where 'Termination Reason' = 'LC', as a reinstatement of its appointment with the previous Energy Supplier, unless a MM00056/D0151 has been received from the previous Energy Supplier.

(Note that the previous Energy Supplier must re-appoint an Agent if it has earlier terminated the Agent. Such re-appointment (MM00065/D0155) must ensure continuity of appointment to the Metering Point, and hence should have an EFD{Agent} = (cancellation MM00056/D0151) ETD{Agent}+1 (calendar) day) and an EFSD{REGI} = the original EFSD{REGI}).

4. MM00065 / D0155 (NOTIFICATION OF METER OPERATOR OR DATA COLLECTOR APPOINTMENT AND TERMS)

Where specified in commercial agreements between an Energy Supplier and their agents, the DI50143/J0274 (Service Reference) and DI50144/J0275 (Service Level Reference) must reflect those arrangements and not be used to negotiate different terms.

When appointing an Agent using a MM00065/D0155 flow, the EFD{Agent} should be the date on which the Agent is to take responsibility for the Metering Point. The appointment takes effect from midnight at the beginning of the day specified in the EFD{Agent}. On a Switch, this will normally be SSD, including where the Gaining Energy Supplier is re-appointing a previously cancelled agent due to an objection, that has now been removed.

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5. MM00156 / D0268 (HALF HOURLY METER TECHNICAL DETAILS)

RULES FOR SPECIFIC SCENARIOS AND EXAMPLES

This section covers examples of advanced metering configurations, and provides notes on how the MM00156/D0268 flow shall be structured and populated in these scenarios.

Multiple MPAN Configurations

In all cases where a single physical Metering Asset has multiple Metering Points associated with it, including in the case of BSCP550 (Shared SVA Metering Systems), it is necessary to create a MM00156/D0268 flow for each Metering Point describing the physical details of the meter, by using either the Measurement Quantity Id (DI50056/J0103) to define which registers are relevant to the particular Metering Point, or via use of a Supplementary Information form for Complex Sites.

Complex Site

REC Schedule 1 'Interpretations and Definitions' defines a Complex Site as: any site that requires a 'Complex Site Supplementary Information Form' to be sent by the Meter Operator Agent to enable Supplier Agents to interpret the Meter Technical Details and calculate consumption data for Settlement purposes. There are therefore Metering Points that the MM00156/D0268 by itself cannot describe correctly or in sufficient detail to allow the HHDC / Advanced Data Service to submit the correct half hourly data into Settlements. In such cases the MOA shall set the Complex Site Indicator (DI51013/J1687) to 'True'.

Active Import; Active Export; Active Import & Active Export

The HHDC / Advanced Data Service will assume that any active import/export pairs are to trade as gross import and gross export unless notified by the Meter Operator Agent or Energy Supplier.

For a site that has both Active Import and Active Export capability, the DNO is required to allocate two Metering Points: one for Active export energy and one for Active import energy. The MOA must provide two MM00156/D0268 Market Messages: one for the import Metering Point and one for the export Metering Point. If the site is metered via a single multi-channel device, the MM00156/D0268 must recognise the fact that there is one physical metering system allocated to the two separate Metering Points.

Both Metering Points shall contain the appropriate information relating to the physical meter installed at the site, so the following data items will be common to both MM00156/D0268 flows (including all occurrences of those items that appear multiple times within the flow).

Outstation Number of Channels (DI50220/J0469) shall be populated to accurately reflect the number of channels on the outstation, even if these are not all relevant for the particular Metering Point.

The differences in the two Market Messages will be in the Measurement Quantity Id (DI50056/J0103) of the different register / channels. The active import Metering Point will show the AI register / channel with a Measurement Quantity Id of "AI" (Active Import) and the AE register / channel as "UN" (Unassigned). Conversely, the export Metering Point will show the AI register / channel as "UN" and the AE register / channel as "AE".

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The reactive registers / channels will be mapped to both the import and export Metering Point as “RE” and “RI”. It should be noted however that the reactive measurements for the two Metering Pointswill not be the same, in accordance with the relevant BSC Code of Practice. For example, in the case of the active Import Metering Point, the MM00156/D0268 flow will contain as a minimum six measurement quantity Ids of AI, RI and RE plus three mapped as “UN”, where RI and RE only increment when the site is actively Importing and the “UN” channels correspond to the Export measurement quantities. Conversely the MM00156/D0268 for the Active Export Metering Point will also have six measurement quantities of AE, RI and RE plus three mapped as “UN”, where RI and RE increment only when the site is actively exporting and the “UN” channels correspond to the Import measurement quantities.

The resulting MM00156/D0268s may look something like the following:

Import MPAN

01A|Mpanxxxxxxxx|19980913|5|2|F|Customer Switchroom|440|3|X||

02A|K99X12345|GP2VIS|ModemType|4|6|001|ABCD1234|ABCD4321||PS||01999123456|1200|||

03A|K99X12345|ABB

Vision||N/A|400/5|A|19980913|MAPid|

04A|01|K99X12345|1|0.050000|10.00|10.0000|AI|6|||

04A|02|K99X12345|2|0.050000|10.00|10.0000|UN|6|||

04A|03|K99X12345|3|0.050000|10.00|10.0000|RI|6|||

04A|04|K99X12345|4|0.050000|10.00|10.0000|RE|6|||

04A|05|K99X12345|5|0.050000|10.00|10.0000|UN|6|||

04A|06|K99X12345|6|0.050000|10.00|10.0000|UN|6|||

Export MPAN

01A|Mpanxxxxxxxx|19980913|5|2|F|Customer Switchroom|440|3|X||

02A|K99X12345|VIS|ModemType|4|6|001|ABCD1234|ABCD4321||PS||01999123456|1200|||

03A|K99X12345|ABB

Vision||N/A|400/5|A|19980913|MAPid|

04A|01|K99X12345|1|0.050000|10.00|10.0000|UN|6|||

04A|02|K99X12345|2|0.050000|10.00|10.0000|AE|6|||

04A|03|K99X12345|3|0.050000|10.00|10.0000|UN|6|||

04A|04|K99X12345|4|0.050000|10.00|10.0000|UN|6|||

04A|05|K99X12345|5|0.050000|10.00|10.0000|RI|6|||

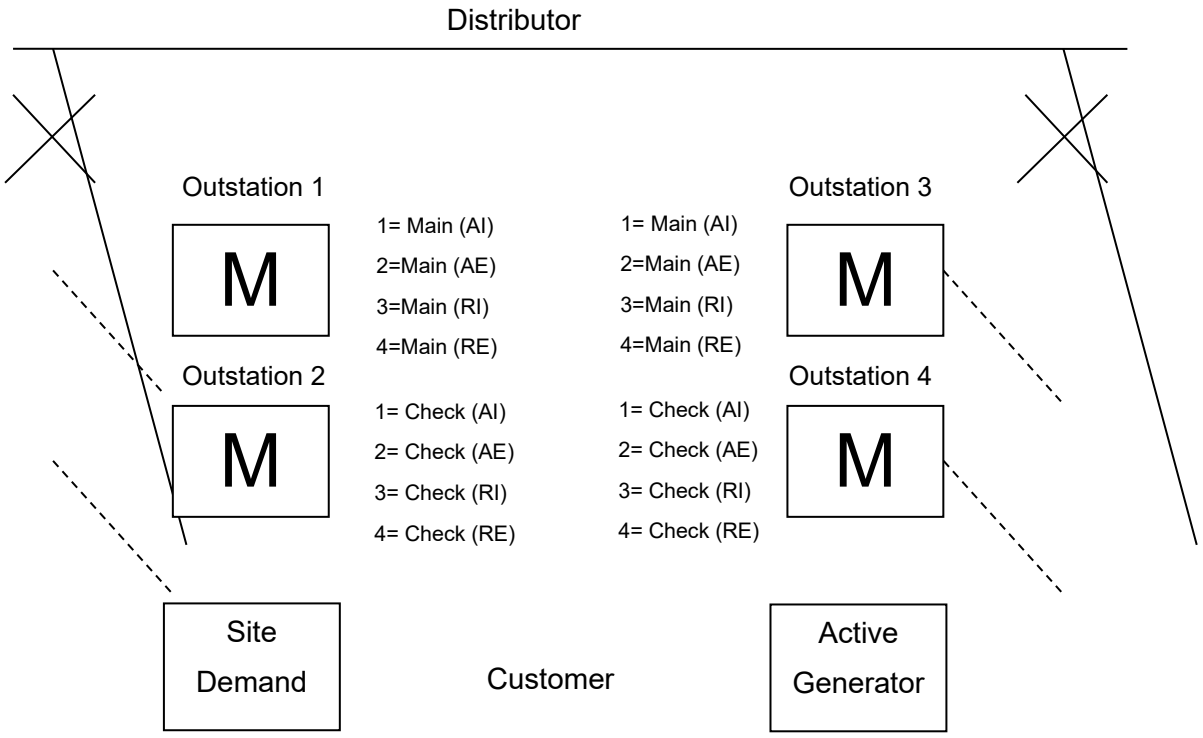
04A|06|K99X12345|6|0.050000|10.00|10.0000|RE|6|||

Net Import / Net Export Sites

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The HHDC / Advanced Data Service will assume that any import/export pairs are to trade as gross import and gross export unless notified by the Meter Operator Agent as in this example.

This example has two Metering Points 1012345678912 (Net Import) and 1098765432101 (Net Export) thus:



The MM00156/D0268 for both of these Metering Points will be identical (except for the MPAN number). Included in the Data Item DI51013/J1687 Complex Site Indicator is an indication that an additional form is required from the Meter Operator Agent or Energy Supplier detailing mapping details. The use of Measurement Quantity 'UN' is not appropriate in this example as both import and export channels are to be used in the calculation of the metered data to be sent to Settlements. The Complex Site Supplementary Information forms are sent no later than the sending of the MM00156/D0268 or preferably in advance of the MM00156/D0268 flow.

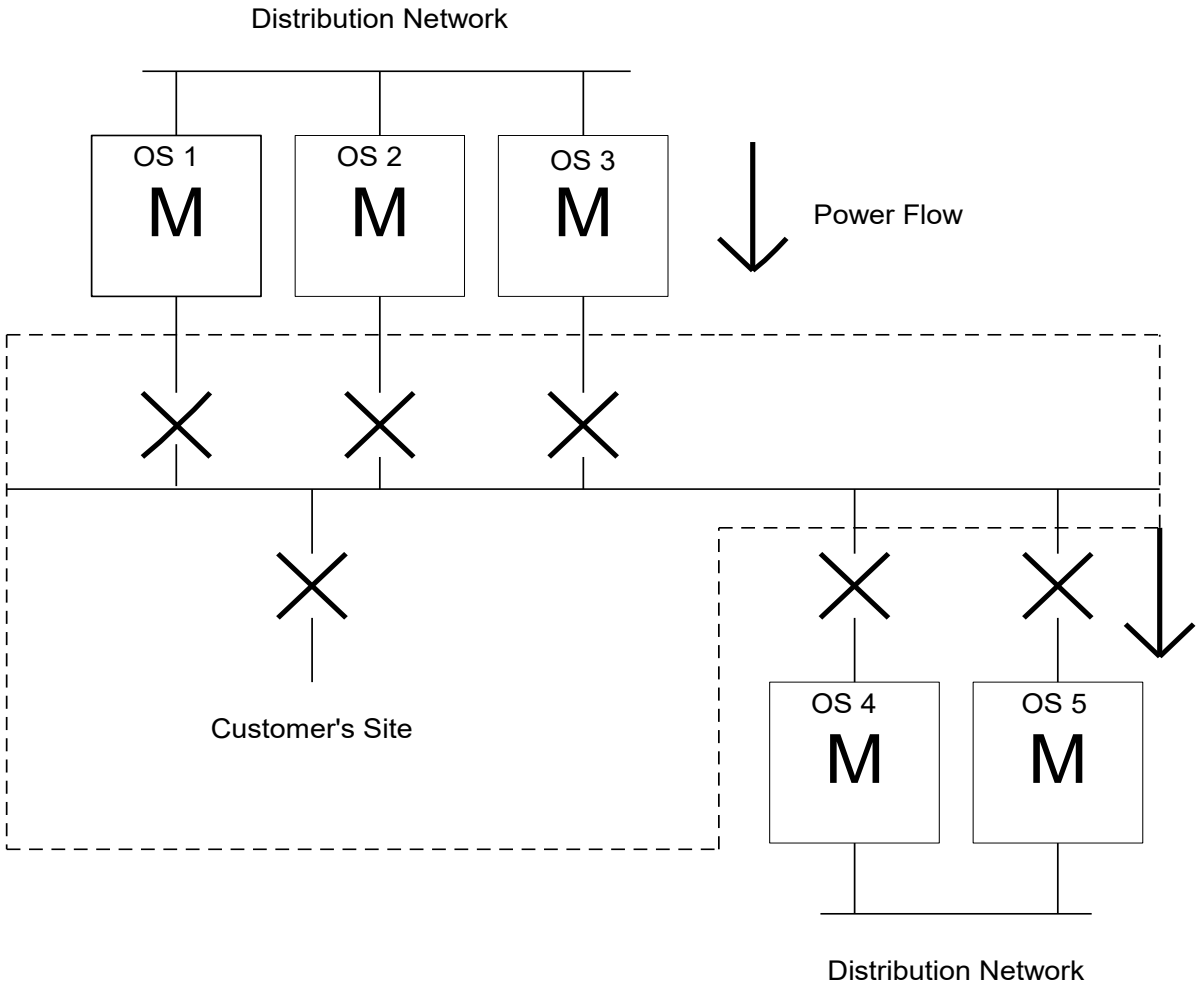
Feed Through Sites

Some Metering Points are required to be traded as Net Import or Net Export. The following example has one Metering Point (1012345678912) with five feeders. Feeders 1, 2 and 3 have power flowing into the site and feeders 4 and 5 are feeding back onto the local distribution network. The MM00156/D0268 for this site will show all five feeders as having AI (Active Import) or AE (Active Export) channels. The HHDC / Advanced Data Service would only set this up as Active Import less Active Export if a Complex Site Supplementary Information form were received, which would be indicated by use of the Complex Site Indicator data item (DI51013/J1687). Otherwise the HHDC / Advanced Data Service would set it up as either Total Import or Total Export, depending on the use of the 'UN' measurement quantity. The supplemental form indicates to the HHDC / Advanced Data Service that feeders 4 and 5 should be subtracted from the sum of feeders 1, 2 and 3. The

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forms shall be sent no later than the sending of the MM00156/D0268 or in advance of the MM00156/D0268 flow.

This is reflected in the following example:



Shared SVA Metering Systems

For a site that is subject to Shared SVA Metering Systems (see BSCP550 – Shared SVA Meter Arrangement of Half Hourly Import and Export Active Energy for more details of this), the AI and / or AE energy from the site is shared between two or more Energy Suppliers. In order to facilitate this, additional Metering Points are generated which will be registered by the Secondary Energy Suppliers and the HHDC / Advanced Data Service splits the energy between the Primary and Secondary Energy Suppliers in proportion to their submitted allocation schedule. MM00156/D0268 flow instances for this scenario are detailed in BSCP550.

It is worth noting that Shared SVA Metering Systms may also be sites that have both import and export capability, and hence could fall into the remit of section 3 to 5 above in addition to this section. This means that an import / export site that is subject to Shared SVA Metering Systems may have more than one Metering Points associated with it (MPANs are required to

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cover the import and export requirements separately, and the Shared SVA Metering Systems MPANs then require additional secondary MPANs to be created), all referring to a single physical Metering Asset. A MM00156/D0268 Market Message for shared metering might look like the following:

Primary Export MPAN

01A|Mpanxxxxxxxxx|19980913|5|2|F|Customer Switchroom|440|3|X||

02A|K99X12345|VISGP2|ModemType|4|6|001|ABCD1234|ABCD4321||PS|O|01999123456|1200|||

03A|K99X12345|ABB PPM LV ISSUE 2Vision|N/A|400/5|A|19980913|MAPid|

04A|01|K99X12345|1|0.050000|10.00|10.0000|UN|6|||

04A|02|K99X12345|2|0.050000|10.00|10.0000|AE|6|||

04A|03|K99X12345|3|0.050000|10.00|10.0000|UN|6|||

04A|04|K99X12345|4|0.050000|10.00|10.0000|UN|6|||

04A|05|K99X12345|5|0.050000|10.00|10.0000|RI|6|||

04A|06|K99X12345|6|0.050000|10.00|10.0000|RE|6|||

Main / Check Meter Mapping

Associated Meter Id and Associated Meter Register Id shall be populated in the 04A group to identify the presence of a check meter. In this way, the first 04A group provides the main meter register details and identifies the associated check meter registers. A separate 04A group will contain details relating to the check meter register details, which will be uniquely identified by the meter id / meter register id. This 04A group will not contain details of any Associated Meter registers.

Unused Channels

Some Metering Points have separate metering pulsing to an outstation, which contains one to many channels. Particular care needs to be taken when populating the MM00156/D0268 in this scenario.

Where an Outstation is configured by the Meter Operator Agent for idle channels to be visible to the Data Collector / Advanced Data Service, then each unassigned channel shall be identified by the Measurement Quantity Id data item as ‘UN’ (unassigned). Where the Meter Operator Agent has programmed this channel not to be visible to the Data Collector / Advanced Data Service, group 04A is not populated.

For example, an FCL outstation can have up to 16 channels. Where less than 16 channels are being used Meter Operator Agents can choose between two alternative approaches, either configure the outstation such that the channel is 'not active' then upon interrogation only the active channels are apparent and able to have data collected from, or the unused channels remain configured but no 'pulses' are fed into these channels.

Thus, in order for the HHDC / Advanced Data Service to successfully dial the outstation, the Outstation Number of Channels Data Item must accurately reflect the number of ‘active’ channels seen by the HHDC / Advanced Data Service when dialling to that Communications Address. It is also a requirement that there must be mapping information for every

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outstation channel. The MOA shall use Measurement Quantity Id "UN" for all active outstation channels that are not assigned to a meter register. However, there are a number of mandatory data items in group 04A which do not apply for any unused channels. These shall be set to dummy values. The following data items shall be populated as detailed below:

Ref	Item Name	Notes
DI50176 J0382	Channel Number	Must be an entry for every channel as identified in DI50220/J0469 (i.e. every active channel shall have an entry in the 04A group in the flow)
DI50056 J0103	Measurement Quantity Id	Set to "UN" for any unused channels
DI50004 J0004	Meter Id (Serial Number)	Use a dummy value to allow all unused channels to be mapped (e.g. "DUMMY")
DI50007 J0010	Meter Register Id	Set to dummy values for each unused channel (e.g. "U1", "U2", "UA", "UB" etc)
DI50225 J0475	Meter Register Multiplier	Set to dummy values for each unused channel (e.g. "0.00")
DI50228 J0478	Number of Register Digits	Use a dummy value for each unused channel (e.g. "0")
DI50198 J0428	Outstation Id	Must be populated
DI50220 J0469	Outstation Number of Channels	Must be populated with the number of active channels on the outstation visible to the DC / DS
DI51014 J1688	Outstation Multiplier	Set to zero for each unused channel (i.e. "0.000000")
DI50200 J0432	Pulse Multiplier	Set to zero for each unused channel (i.e. "0.000000") to remove the possibility of readings being passed on by the HHDC / Advanced Data Service

This rule shall be applied to any other outstation types where unused 'active' channels exist.

Use of Passwords - Outstation Password Level 2 J DI50627/1257

When Outstation Password Level 2 has a value, the Meter Operator Agent shall populate this field completely with asterisk on flow versions sent to any participants other than MOA and DC / DS.

Meter Asset Provider Id (MAP) DI51003/J1677

This is for the population of the Meter Asset Provider Id, which is synonymous with the Meter Owner in the Balancing and Settlement Code.

Outstation Multiplier DI51014/J1688

The Outstation Multiplier (DI51014/J1688) shall be populated as shown

- Vision meters = 1
- Other meter/combined outstations = DI50225/0475 (Meter Register Multiplier)

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- For separate outstations, the Outstation Multiplier will equal the constant required to give the correct outstation cumulative advance when polled by a HHDC / Advanced Data Service..

Event Indicator DI51015/J1689

This data item with its' range of valid set options, will allow the MOA to advise the recipient the reason behind the MM00156/D0268 Market Message submission. When there has been a total removal of meters without any replacement, then option 'C' shall be used in addition to the 'Meters Removed' group contained within the MM00156/D0268. Upon a meter removal/ exchange without a change to the Energisation Status, then the MM00036/D0139 shall not be sent with the MM00156/D0268. Below is clarification on the meaning of each Event Indicator code.

Additional Information DI50008/J0012

For use of population along with data item Event Indicator (DI51015/J1689), valid set option 'Z' (Other), which shall be populated to allow for relevant information to be sent to the recipient explaining the reason behind the MM00156/D0268 submission.

Communications Method DI50178/J0386

When populating Communications Method with either HP or HT, the Communications Address Item shall not be populated. The Communications Method option HT, shall only be used for new sites where comms are on order or on sites with recognised comms problems.

When 'Communications Method' data item is populated with 'GS' (Global System for Mobile Communications (GSM)) then the population of data item 'Modem Type' shall include the network service provider Id.

Feeder Status DI51010/J1684

In the event that a Summation CT is being utilised to aggregate two or more Feeders onto one Meter Id (Serial No), then the Feeder Status shall be populated as 'Active' if any one of the Feeders is energised.

Additional Data Item Notes

The notes in the following table shall be adhered to when creating a MM00156/D0268 dataflow:

Ref	Item Name	Notes
DI50629 J1260	Baud Rate	This shall reflect the baud rate of the modem dialled by the HHDC. Any internal network communications (eg PAKNET) that communicate at other baud rates are not relevant. Shall be populated to facilitate remote dial-up.
DI50176 J0382	Channel Number	This shall be populated to reflect the physical set-up of the outstation. Notice should be taken of section **Error! Reference source not found.** for any unused channels (All leading zero's shall be included).
DI50056 J0103	Measurement Quantity Id	Where the Measurement Quantity is not relevant to that Metering Point (Active Import and Active

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Ref	Item Name	Notes
		Export), but the Meter Operator Agent has set the value to be recorded, then this shall be populated as 'Unassigned'. Except in cases where the J1687 "Complex Site Indicator" is set to "True", it is not permissible to use a Measurement Quantity ID that relates to Active Export, on a Metering Point that has been set up to record Import (and vice versa). Except for complex sites (above), where the Meter Operator Agent has programmed the channel to be visible to the Data Collector, unused channels must be populated as "Unassigned".
DI50478 J1025	Meter Equipment/Service Location	Where known, Meter Equipment/ Service Location shall be populated to provide guidance to the meter reader as to the location of the metering system at the site.
DI50004 J0004	Meter Id (Serial Number)	As per EMDS except when other rules within this document apply.
DI50007 J0010	Meter Register Id	As per EMDS except when other rules within this document apply. Register channels 1, 2, etc shall be padded with a leading zero to ensure that this field is always 2 characters in length.
DI50225 J0475	Meter Register Multiplier	As per EMDS except when section **Error! Reference source not found.** applies.
DI50228 J0478	Number of Register Digits	For a metering system that has an integral outstation, DI50228/J0478 shall be the same as DI50626/J1256 (Outstation Number of Dials). Otherwise, these items may be different.
DI50198 J0428	Outstation Id	As per EMDS. Note that the HH MOP shall not include any dashes "-" or underscore "_" characters in this field when these characters prefix or suffix the Outstation Id. These will be added by the HHDC when dialling the meter if necessary. Underscores or dashes within the Outstation Id shall be included.
DI50216 J0464	Outstation PIN	As per EMDS, except when Comms Method is LAN for PRI meters as this is a way of achieving multi-dropping.
DI50220 J0469	Outstation Number of Channels	Shall always reflect the number of active channels on the outstation that are visible to the DC.
DI50200 J0432	Pulse Multiplier	As per EMDS except when section **Error! Reference source not found.** applies.

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6. MM00260 / D0313 (AUXILIARY METER TECHNICAL DETAILS)

The following section provides some guidance about use of certain data included in MM00260/D0313.

Group 03G Outstation Details

The existing rules for completion of this flow apply to the passwords. Similar conventions should apply to the use of the Outstation Usernames. These should only be populated where the context requires that the recipient is appropriate to have the information to meet their operational and commercial obligations.

In the majority of cases in the use of this flow the Outstation and Meter will be the same physical device, therefore the data items such as Outstation Number of Dials will equal the Number of Register Digits.

Group 04G Communications Details

The MM00260/D0313 caters for multiple Communications Addresses and associated Methods. Address 1 should be associated to Method 1, and – where applicable - Address 2 associated to Method 2 etc. This is more extensive than the MM00156/D0268.

Where a new installation of a meter intending to be remotely read occurs but the communications are not operating initially, the Meter Type should be set to 'N', and the MM/00047/D0149 and/or MM00051/D0150 sent. When the communications are installed and operational on the metering equipment the Meter Type should be changed to RCAMR, RCAMY, or NCAMR, and the MM/00047/D0149 and/or MM00051/D0150 and MM00260/D0313 sent.

Where an existing installation of a meter of type RCAMR, RCAMY, or NCAMR suffers a communications failure then if the failure is transient, the meter type remains unchanged and the problem resolved through the fault resolution process.

Where it is determined that communications have failed and they will not be replaced, or have been completely removed, then the Meter Type should be changed to N and the MM/00047/D0149 and/or MM00051/D0150 (without MM00260/D0313) should be sent. The change of Meter Type and absence of MM00260/D0313 will alert the recipient of the change of meter reading capability of that metering system.

Where a metering system has multiple Measurement Quantities (e.g. AI, KW, RI, KV etc.) Groups 04G, 05G and 06G are repeated for each Measurement Quantity/channel combination which can be accessed via the relevant Communications Method and provider in Group 04G. An example of this scenario is included below.

The Communications Provider data item is subject to a parallel BSC change to create a new role code and Market Participants for providers as required.

Group 07G Meter Memory Details

Schedule 14 Metering Operations Part E, section 30.4 states:

"...c) where multi-register Non Half Hourly Metering Assets are installed and where required by its associated Electricity Supplier, programme those Metering Assets for which it is responsible so that the physical registers may be mapped using the Meter Technical Details

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supplied to its associated Data Collector onto logical registers forming a valid Standard Settlement Configuration;

d) when installing a NHH multi-register Metering Asset, or when attending the site to carry out work on such a Metering Asset that would require re-registration of the Metering Asset, ensure that the registers of the Metering Asset are clearly identified and that the Meter Register IDs to be used in all relevant Market Messages clearly identify the registers on the Metering Asset to be read e.g. "L", "N", "R1", "R2". Where the identifier cannot be uniquely identified by a 2-character Meter Register ID (e.g. "CUM 3"), a label shall be applied to, or immediately adjacent to, the Metering Asset that shows the display sequence with the equivalent Meter Register ID for each register (e.g. "CUM 2 – Reg ID = 02" etc.). For two-rate Key Meters only, the only permitted Meter Register IDs are "1", "1 ", "01" or "R1" and " 2", "2 ", "02" or "R2". For Smart Metering Systems, the Electricity Supplier is responsible for ensuring that the Meter Register Ids and/or Meter Register Descriptions in the D0367 'Smart Meter Configuration Details'; and the MOA is responsible for ensuring that the Meter Technical Details, are reflective of the display on the Smart Metering System;

The text is based on an eye-ball reading process, where the meter reader can use the label adjacent to the meter to cross refer the settlement register description to that displayed by the meter. This label does not exist when a NHHDC is remotely retrieving register values from a meter.

This group in MM00260/D0313 is designed to enable the Meter Operator Agent to inform the NHHDC of the correct 'triangulation' between the MM/00047/D0149 and/or MM00051/D0150 register names and where they reside within the meter – the Meter Memory Location (DI51036/J1710). The NHHDC can then obtain the register values stored in the Meter Memory Location and submit those values associated to the correct settlement registers in the D0010.

An example of the problem is demonstrated by a three-rate meter, where the meter display indicates R1, R2 and R3 as does the internal time of use register values.

Configuration A

If the 'week day' consumption was recorded on the R1 register then the NHHDC would recover the data from the meter from wherever they knew the R1 data was stored. Similar for 'night' from R2, and 'weekend day' from R3.

This group would allow the NHHDC to map the settlement descriptors of DY to the internal (and display) Meter Memory Location of R1, similarly, NT = R2, WE = R3.

Configuration B

If the 'week day' consumption was recorded on the R1 register then the NHHDC would recover the data from the meter from wherever they knew the R1 data was stored. Similar for 'night' from R3, and 'weekend day' from R2.

This group would allow the NHHDC to map the settlement descriptors of DY to the internal (and display) Meter Memory Location of R1, similarly, NT = R3, WE = R2.

If the Meter Operator Agent or NHHDC get the mapping incorrect then the settlement and billing data is incorrect. This is a significant issue today, where NHHDCs are making 'assumptions' based on the meter type and the Meter Operator Agent. However, these

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assumptions are not robust as the same Meter Operator Agent may have meters in their portfolio configured differently due to request by customers or Energy Suppliers. Equally they may have become responsible for a meter, with a different configuration, after a change of Meter Operator Agent. Energy Suppliers have confirmed that they do not want existing meters reconfigured on change of Meter Operator Agent events, as this will further confuse any errors and subsequent corrections to billing and settlement.

Meter Register Description (DI51038/J1712) is included as an optional field. It should always be populated where the register value is visible on the display. The only circumstance when it should be unpopulated is where a register indicated in the D0149/D0150 is not visible on the display. This group will only include those registers included in the D0149/D0150, but there may be display items (e.g. current power factor or frequency) which are visible on the meter which will not be included in the MM00047/D0149, MM00051/D0150, or MM00260/D0313. The field is a CHAR field and can therefore accommodate upper and lower-case letters, and should reflect as accurately as possible the meter display.

Example Flows

These are provided to illustrate how the flow could be used for various meter types and configurations.

Configuration A

A MEM constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a three rate EDMI Mk10 meter without any non-settlement registers.

D0150

ZHV|0031295164|D0150001|M|ABCD|D|EFGH|20091208114331||||OPER|

288|1900000000004|20091207||E|

289|0326|20091207|||

290|209123456|||100|E|EDMI MK10 LVWC
D|UKDC||||||||||RCAMR|20091207|20090714|20190714|||R|20091207|

293|R1|C|AI|1.00||8|||

293|R2|C|AI|1.00||8|||

293|R3|C|AI|1.00||8|||

ZPT|0031295164|6||1|20091208114331|

D0149

ZHV|0031295158|D0149001|M|ABDC|D|EFGH|20091208114331||||OPER|

280|1900000000004|20091207|

281|0326|20091207|

778|00184|

283|209123456|

284|R1|1|

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778|00187|

283|209123456|

284|R2|1|

778|00210|

283|209123456|

284|R3|1|

ZPT|0031295158|11||1|20091208114331|

D0313

ZHV|0031295682|DXXXX001|M|ABCD|D|EFGH|20091208134106||||OPER|

02G|1900000000004|20091207|COP 10|6|D|T|

03G|209123456|E10|1|6||1|username|password|username|password|username|********|

04G|CS|07948111222|||ORAN|

06G|209123456|

07G|IN|F061|

08G|R1|1E02|Day|

08G|R2|1E03|Wknd|

08G|R3|1E04|Night|

ZPT|0031295682|8||1|20091208134106|

Configuration B

A MEM has constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a three rate EDMI Mk10 meter without any non-settlement registers.

D0150

ZHV|0031295164|D0150001|M|ABDC|D|EFGH|20091208114331||||OPER|

288|1900000000004|20091207||E|

289|0326|20091207|||

290|209123456|||100|E|EDMI MK10 LVWC
D|UKDC||||||||||RCAMR|20091207|20090714|20190714|||R|20091207|

293|R1|C|AI|1.00||8|||

293|R2|C|AI|1.00||8|||

293|R3|C|AI|1.00||8|||

ZPT|0031295164|6||1|20091208114331|

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D0149

ZHV|0031295158|D0149001|M|ABCD|D|EFGH|20091208114331||||OPER|

280|1900000000004|20091207|

281|0326|20091207|

778|00184|

283|209123456|

284|R1|1|

778|00210|

283|209123456|

284|R2|1|

778|00187|

283|209123456|

284|R3|1|

ZPT|0031295158|11||1|20091208114331|

D0313

ZHV|0031295682|D0313001|M|ABDC|D|EFGH|20091208134106||||OPER|

02G|1900000000004|20091207|COP 10|6|D|T|

03G|209123456|E10|1|6||1|username|password|username|password|username|********|

04G|CS|07948111222|||ORAN|

06G|209123456|

07G|IN|F061|

08G|R1|1E02|Day|

08G|R2|1E03|Night|

08G|R3|1E04|Wknd|

ZPT|0031295682|8||1|20091208134106|

Example 1

A MEM has contrasted the following example of the MM00051/D0150, MM00047/D0149 and MM00260/D0313 showing a typical use of the flow for a two rate EDMI Atlas Mk10 meter.

D0150

ZHV|BMFVV07J25|D0150001|M|ABDC|D|EFGH|20090612143320||||OPER|

288|1000000000001|20081014||E|

289|0244|19970801|||

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290|E10BG00000|||100|C|EDMI Atlas Mk10-3|BMET||||||||||RCAMR|20081014|20070808|20170808|||R|20081014|

293|R1|C|AI|1.00||8|||

293|R2|C|AI|1.00||8|||

ZPT|BMFVV07J25|5||1|20090612143320|

D0149

ZHV|BMFVV02RN5|D0149001|M|ABDC|D|EFGH|20090612143257||||OPER|

280|1000000000001|20081014|

281|0244|19970801|

778|00040|

283|E10BG00000|

284|R1|1|

778|00206|

283|E10BG00000|

284|R2|1|

ZPT|BMFVV02RN5|8||1|20090612143257|

D0313

ZHV|BMFVV02RNT|D0313001|M|ABDC|D|EFGH|20090612143257||||OPER|

02G|1000000000001|20091201|5||I|T|

03G|||||||ADMIN|PASSWORD|USER|PASSWORD|||

04G|GP|XXX.XX.XXX.XX|||ORAN|

05G|8|X|AI|

06G|E10BG00000|

07G|IN|F061|

08G|R1|1E02||

08G|R2|1E03||

07G|ST|6200|

08G|R1|1C02||

08G|R2|1C03||

ZPT|BMFVV02RNT|11||1|20090612143257|

Example 2

A MEM has constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a single rate EDMI Mk10 meter with MD and reactive register.

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D0150

ZHV|0031295164|D0150001|M|ABDC|D|EFGH|20091208114331||||OPER|

288|1600000116210|20091207||E|

289|0393|20091207|MSNFC 98|20091207|

762|20091207|I-RNHH-WC Install - Remote NHH|

290|209147035|||100|E|EDMI MK10 LVWC
D|UKDC||||||||||RCAMR|20091207|20090714|20190714|||R|20091207|

293|UN|C|AI|1.00||8|||

293|CT|C|AI|1.00||8|||

293|MD|M|KW|1.00||8|||

293|TR|C|RI|1.00||8|||

ZPT|0031295164|10||1|20091208114331|

D0149

ZHV|0031295158|D0149001|M|ABDC|D|EFGH|20091208114331||||OPER|

280|1600000116210|20091207|

281|0393|20091207|

778|00001|

283|209147035|

284|UN|1|

23A|MSNFC 98|20091207|

24A|00001|

25A|209147035|

26A|MD|1|

26A|CT|1|

26A|TR|1|

ZPT|0031295158|11||1|20091208114331|

D0313

ZHV|0031295682|D0313001|M|ABCD|D|EFGH|20091208134106||||OPER|

02G|1600000116210|20091207|COP 10|6|D|T|

03G|209147035|E10|1|6||1|username|password|username|password|username|********|

04G|CS|07948111222|||TMOB|

05G|1|1|AI|

06G|209147035|

07G|IN|F061|

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08G|UN|1E01|R1|

08G|CT|1E00|CT|

08G|TR|1E20|TR|

07G|ST|6200|

08G|MD|2000|nD|

ZPT|0031295682|11||1|20091208134106|

Example 3

A MEM has constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a two rate Elster A1140 meter with MD and reactive register.

D0150

ZHV|0031295688|D0150001|M|ABCD|D|EFGH|20091208134106||||OPER|

288|1412799493120|20091207||E|

289|0051|19970801|||

762|20091207|I-RNHH-WC Install - Remote NHH|

290|K09105777|||100|H|ELSTER
A1140|UKDC||||||||||RCAMR|20091207|20091007|20191007|||R|20091207|

293|DY|C|AI|1.00||6|||

293|NT|C|AI|1.00||6|||

293|CT|C|AI|1.00||6|||

293|TR|C|RI|1.00||6|||

293|MD|1|KW|1.00||6|||

ZPT|0031295688|9||1|20091208134106|

D0149

ZHV|0031295682|D0149001|M|ABDC|D|EFGH|20091208134106||||OPER|

280|1412799493120|20091207|

281|0051|19970801|

778|00120|

283|K09105777|

284|NT|1|

778|00112|

283|K09105777|

284|DY|1|

23A|MSNFC 98|20091207|

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24A|00001|

25A|K09105777|

26A|MD|1|

26A|CT|1|

26A|TR|1|

ZPT|0031295682|14||1|20091208134106|

D0313

ZHV|0031295682|D0313001|M|ABDC|D|EFGH|20091208134106||||OPER|

02G|1412799493120|20091207|COP 10|6|D|T|

03G|K09105777|A11|1|6||1||password||password||**********|

04G|CS|07948111222|||TMOB|

05G|1|1|AI|

06G|K09105777|

07G|IN|A.A.A.A.A.A|

08G|DY|A.A.A.A.A.A|Day|

08G|NT|A.A.A.A.A.A|Night|

08G|CT|A.A.A.A.A.A|Total|

08G|TR|A.A.A.A.A.A|Reactive|

07G|ST|A.A.A.A.A.A|

08G|MD|A.A.A.A.A.A|MD|

ZPT|0031295682|12||1|20091208134106|

Example 4

A MEM has constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a two rate Elster AS230 meter.

D0150

ZHV|0031295688|D0150001|M|ABDC|D|EFGH|20091208134106||||OPER|

288|1012799493102|20091207||E|

289|0051|19970801|||

762|20091207|I-RNHH-WC Install - Remote NHH|

290|09105087|||100|H|ELSTER AS230
LVWC|UKDC||||||||||RCAMR|20091207|20091007|20191007|||R|20091207|

293|DY|C|AI|1.00||6|||

293|NT|C|AI|1.00||6|||

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ZPT|0031295688|6||1|20091208134106|

D0149

ZHV|0031295682|D0149001|M|ABCD|D|EFGH|20091208134106||||OPER|

280|1012799493102|20091207|

281|0051|19970801|

778|00120|

283|09105087|

284|NT|1|

778|00112|

283|09105087|

284|DY|1|

ZPT|0031295682|8||1|20091208134106|

D0313

ZHV|0031295682|D0313001|M|ABDC|D|EFGH|20091208134106||||OPER|

02G|1012799493102|20091207|COP 10|6|D|T|

03G|09105087|A23|2|6||1||password||password||**********|

04G|CS|07958111216|||VODA|

05G|1|1|AI|

06G|09105087|

07G|IN|A.A.A.A.A.A|

08G|DY|A.A.A.A.A.A|R2|

08G|NT|A.A.A.A.A.A|R1|

ZPT|0031295682|8||1|20091208134106|

Example 5

A MEM has constructed the following example of the MM00051/D0150, MM00047/D0149, and MM00260/D0313 for a two rate with MD Elster A1700 VISION meter.

D0150

ZHV|0031295688|D0150001|M|ABDC|D|EFGH|20091208134106||||OPER|

288|1900000000013|20091207||E|

289|0244|19970801|MSNSFC 98|20091207|

290|07115087|||100|H|ELSTER A1700
LVWC|UKDC||||||||||RCAMR|20091207|20091007|20191007|||R|20091207|

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293|R1|C|AI|1.00||6|||
293|R2|C|AI|1.00||6|||
293|MD|1|KW|1.00||6|||
ZPT|0031295688|6||1|20091208134106|

D0149

ZHV|0031295682|D0149001|M|ABCD|D|EFGH|20091208134106||||OPER|
280|1900000000013|20091207|
281|0244|19970801|
778|00043|
283|07115087|
284|R2|1|
778|00210|
283|07115087|
284|R1|1|
23A|MSNFC 98|20091207|
24A|00001|
25A|07115087|
26A|MD|1|
ZPT|0031295682|12||1|20091208134106|

D0313

ZHV|0031295682|D0313001|M|ABCD|D|EFGH|20091208134106||||OPER|
02G|1900000000013|20091207|COP 5|6|D|F|
03G|07115087|VIS|2|6||1||password||password||**********|
04G|CS|07975451256|||VODA|
05G|1|1|AI|
05G|2|1|RI|
06G|07115087|
07G|IN|Time|
08G|R1|TOU Register 01|NT|
08G|R2|TOU Register 02|DY|
08G|MD|Maximum Demand 1|MD|
ZPT|0031295682|10||1|20091208134106|

Example 6

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A MEM has created this example of the MM00260/D0313 to show how the flow could be constructed where there are multiple communications methods

2 rate EDMI Mk10 Meter with non-settlement registers.

- Two communication methods, GP and GS
- 4 x Measurement Quantity ID’s.

ZHV|LBG1OR0DT0|D0313001|M|ABCD|D|EFGH|201002111111||||OPER|

02G|1000000000001|20101001|10||J|T|

03G|XX|XX|X|X||1|USERNAME|PASSWORD|USERNAME|PASSWORD|||

04G|GP|XXX.XX.XXX.XX|||ORAN|

05G|1|1|AI|

06G|E10LB00001|

07G|IN|F061|

08G|R1|1E01||

08G|R2|1E02||

08G|CT|1E00||

07G|ST|6200|

08G|R1|1C01||

08G|R2|1C02||

08G|CT|1C00||

04G|GP|XXX.XX.XXX.XX|||ORAN|

05G|1|1|RI|

06G|E10LB00001|

07G|IN|F061|

08G|TR|1E20||

07G|ST|6200|

08G|TR|1C20||

04G|GP|XXX.XX.XXX.XX|||ORAN|

05G|1|1|KW|

06G|E10LB00001|

07G|IN|F061|

08G|MW|3E40||

07G|ST|6200|

08G|MW|3C40||

04G|GP|XXX.XX.XXX.XX|||ORAN|

05G|1|1|KV|

06G|E10LB00001|

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07G|IN|F061|
08G|MV|3E00||
07G|ST|6200|
08G|MV|3C00||
04G|GS|07777777777|||ORAN|
05G|1|1|AI|
06G|E10LB00001|
07G|IN|F061|
08G|R1|1E01||
08G|R2|1E02||
08G|CT|1E00||
07G|ST|6200|
08G|R1|1C01||
08G|R2|1C02||
08G|CT|1C00||
04G|GS|07777777777|||ORAN|
05G|1|1|RI|
06G|E10LB00001|
07G|IN|F061|
08G|TR|1E20||
07G|ST|6200|
08G|TR|1C20||
04G|GS|07777777777|||ORAN|
05G|1|1|KW|
06G|E10LB00001|
07G|IN|F061|
08G|MW|3E40||
07G|ST|6200|
08G|MW|3C40||
04G|GS|07777777777|||ORAN|
05G|1|1|KV|
06G|E10LB00001|
07G|IN|F061|
08G|MV|3E00||
07G|ST|6200|
08G|MV|3C00||

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ZPT|BMFVV02RNT|11||1|20090612143257|

7. MM00336 / D0367 (SMART METER CONFIGURATION DETAILS)

RULES FOR MAPPING METER REGISTER IDS FOR SMART DCC-SERVICED METERS

Enhanced functionality of smart meters means that Energy Suppliers are able to remotely configure up to 48 different tariff registers. On a Switch this may mean the registers on which consumption is recorded may differ between Losing and Gaining Energy Supplier and therefore has the potential to cause confusion on opening and closing bills. In order to mitigate any confusion a common set of mapping conventions is used.

1) Meter Register Id (DI50007/J0010) values will be assigned sequentially in accordance with the number of time of use registers recording consumption, for example:

a) The import Metering Point of a four rate meter will use values '1' through to '4'.

b) The secondary Metering Point of a twin element metering system will use values '1' through to '4' as applicable.

2) Meter Register Id (DI50007/J0010) values will be assigned by time pattern regime under the following principles:

a) Single rate and on-peak consumption for multi-rate tariffs will be assigned the '1' register

b) Off-peak consumption for multi-rate tariffs will be assigned the '2' register

c) Seasonal/weekend consumption for multi-rate tariffs will be assigned the '3' register

d) Seasonal consumption for multi-rate tariffs will be assigned the '4' register

Examples

For a single element smart meter, the import MPAN shall be assigned the following Meter Register Id (DI50007/J0010) mapping:

- Single rate - '1' (e.g. Unrestricted SSC 0393, or 10 hour off-peak SSC 0003)
- Two rate (e.g. Economy 7 SSC 0151):
  - '1' for on-peak consumption (e.g. TPR 00043)
  - '2' for off-peak consumption (e.g. TPR 00210)
- Three rate (e.g. Evening/Weekend Economy 7 SSC 0326)
  - '1' for on-peak consumption (e.g. TPR 00184)
  - '2' for off-peak consumption (e.g. TPR 00210)
  - '3' for weekend consumption (e.g. TPR 00187)
- Four rate (e.g. 4-rate SToD SSC 0136)
  - '1' for on-peak consumption (e.g. TPR 00124)
  - '2' for off-peak consumption (e.g. TPR 00222)
  - '3' for weekend consumption (e.g. TPR 00202)
  - '4' for seasonal consumption (e.g. TPR 00246)

For a twin element smart meter, the import and secondary MPAN shall be assigned the following Meter Register Id (DI50007/J0010) mapping:

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- Three rate (E10 heating SSC 980 paired with 981)
    - ‘1’ for on-peak consumption on the import MPAN (e.g. TPR 00467)
    - ‘2’ for off-peak consumption on the import MPAN (e.g. TPR 00466)

‘1’ for heating consumption on the secondary MPAN (e.g. TPR 00468)

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