~~ATTACHMENT A –~~ NEW AND AMENDED MARKET MESSAGES AND DATA ITEMS FOR P375 FOR IMPLEMENTATION IN THE EMAR

1. New BSC-owned Data Item

1.1 Elexon proposes the introduction of a new BSC-owned Market Message (D0390~~xxxx~~) for Half Hourly Data Collectors to send 'Asset Metering System Half Hourly Metered Data' to the SVAA.

Flow Reference	D0390~~XXXX~~
Flow Version	001
Status	Operational
Flow Name	Asset Metering System Half Hourly Metered Data
Flow Description	Asset Metering System Half Hourly Metered Data for use by the SVAA
Flow Ownership	BSC

From	**To**	**Version**
HHDC	SVAA	

Reference	**Item Name**
J2273~~Jxxxx~~	Period Asset Metering System Metered Data
J0003	MPAN Core
J0020	Actual / Estimated Indicator
J0066	GSP Group Id
J0073	Settlement Date
J0074	Settlement Period Id
J0103	Measurement Quantity ID

Flow Structure

Group	**Group Description**	**Range**	**Condition**	**L1**	**L2**	**L3**	**L4**	**L5**	**L6**	**L7**	**L8**	**Item Name**
YYYY	MPAN Core	1-*		G								
					1							MPAN Core
					1							Measurement Quantity ID
					1							GSP Group Id
XXXX	Settlement Date	1-*			G							
						1						Settlement Date

ZZZZ	Settlement Period Metering System Metered Data	46,48,50				G						
							1					Settlement Period Id
							1					Actual / Estimated Indicator
							1					Period Asset Metering System Metered Data

Notes:
The J0003 'MPAN Core' Data Item in this Data Flow will only report 'AMSID' values, as defined by the J2274~~yyyy~~ 'AMSID Core' Data Item, which is an Alias of the J0003. The HHDC must send Period Asset Metering System Metered Data to the SVAA for all AMSIDs to which they have been appointed.

1.2 The D0390~~xxxx~~ ~~data flow~~Market Message requires the introduction of a new Data Item (J2273~~xxxx~~) Period Asset Metering System Metered Data:

Item Name:	**Period Asset Metering System Metered Data**
Item Reference:	J2273~~xxxx~~
Item Ownership:	BSC
Item Description:	The Half Hour metered data for a Half Hourly Asset Metering System.
Units:	kWh
Valid Set:	Any number within the constraints of the format
Validation:	As Valid Set
Domain:	Consumer Energy
Logical Format:	[± NUM(9,3)]
Physical Length:	[11]
Has Synonyms:	
Has Aliases:	
Notes:	

1.3 In order to allow AMSIDs to be transferred using the 'MPAN Core' data item in the D0390 ~~Dxxxx~~, Elexon is proposing to introduce a new 'AMSID Core' data item, to be used as an "Alias" of the 'MPAN Core'. Note that 'MPAN Core' will not be physically included in any ~~Data Flows~~P375 Market Message.

Item Name:	**AMSID CORE**
Item Reference:	J2274~~yyyy~~
Item Ownership:	BSC
Item Description:	A unique identifier for an Asset Metering System. This is an alias of 'MPAN Core' (J0003). See 'MPAN Core' (J0003) for data item attributes.
Units:	None
Valid Set:	Allocated by the BSC Supplier Volume Allocation Agent (SVAA) system.
Validation:	Digits 1-2; a 2-digit short code ("77"), which is not used by Distributors for MPANs, reserved in MDD Digits 3-12; Unique number allocated by the SVAA Digit 13; Check digit
Domain:	Identifier
Logical Format:	INT(13)
Physical Length:	13
Has Synonyms:	
Has Aliases:	

1.4 The proposed extended use of the MPAN Core in the D0390 ~~Dxxxx~~ Market Message ~~data flow~~ requires a revised definition of the existing 'MPAN Core' data item:

Item Name:	**MPAN Core**
Item Reference:	J0003
Item Ownership:	MRA
Item Description:	The unique national reference for a Metering System or an Asset Metering System. ~~First two digits - Valid Distributor identifier~~ ~~Next 10 digits - Unique number to the Distributor~~ ~~Last digit - Check digit generation is defined in (MOD 11)~~
Units:	None
Valid Set:	Obtained from/allocated by the appropriate Distribution Business or by the SVAA for Asset Metering Systems.
Validation:	1-2; Valid Distribution Business identifier (as defined for each Distributor Market Participant Role in MDD). Note that MDD may reserve certain Distribution Business identifiers for non-Distributor purposes (including the allocation of Asset Metering System Identifiers by the SVAA) o~~see data item [Distributor Id]~~). 3-12; Unique number (within Distribution Business or other allocating organisation). 13; Check digit
Domain:	Identifier
Logical Format:	INT(13)
Physical Length:	13
Has Synonyms:	'Metering System Id' (J0083) 'MSID' (J0421)
Has Aliases:	'BSPID' (J1284) 'GMSID (Generation Metering System Identification)' (J0975) 'Green Deal MPAN Core' (J1813) 'New GD MPAN Core' (J1814) 'Sequence MPAN Core' (J1261) 'AMSID Core' (Jyyyy)
Notes:	

1.5 In order that Asset Metering Virtual Lead Parties (AMVLP) may use the DTN, Elexon proposes an amendment to the table of Data Transfer Participant Roles, which is currently included in Annex A of the Data Transfer Catalogue:

A11 This entity describes the types of party within the electricity industry who may be responsible as the source or recipient of an information flow. At the time of printing, common industry definitions of the data transfer participant roles have been determined.

Attribute	**Description**
Market Participant role code	An indicator used to identify the role of the market participant.
Market Participant role name	The name of the market participant role.
Market participant role description	The description of the market participant role.

Market Participant Role Name	**Market Participant role Description**
Capacity Provider	Capacity Market (CM) Capacity Provider
CFD Generator	Contract for Difference (CfD) Generator
CFD Settlement Services Provider	Contracts for Difference (CfD) Settlement Services Provider
CM Settlement Services Provider	Capacity Market Settlement Services Provider
DCC	Data Communications Company
Distributor	Distribution Business (BSC Terminology = Distribution System Operator)
ECOES	Electricity Central Online Enquiry Service
GD Licensee	Green Deal Licensee
GD Provider	The Green Deal Provider, or the nominated Green Deal Arrangements Agreement party processing data on their behalf under that Agreement
GD Remittance Processor	The organisation which processes data relating to Green Deal monies remitted from or reclaimed by the Green Deal Licensee in relation to Green Deal charges
GDCC	Green Deal Central Charge Database
Grid Operator	Grid Operator
GRS Operator	Generation Registration Service Operator
HHDA	Half Hourly Data Aggregator
HHDC	Half Hourly Data Collector
MAP	Meter Asset Provider
MDDA	Market Domain Data Agent
MOP	Meter Operator
MPAS	Metering Point Administration Service
MPAS Agent	Metering Point Administration Service Agent (BSC Terminology = Supplier Meter Registration Agent - SMRA)
NHHDA	Non Half Hourly Data Aggregator
NHHDC	Non Half Hourly Data Collector
NHHDR	Non Half Hourly Data Retriever
PPMIP	Prepayment Meter Infrastructure Provider
Profile Administrator	Profile Administrator
RPS	Revenue Protection Service
SFIC	System Fault Information Centre
Supplier	Supply Business
SVAA	Supplier Volume Allocation Agent
Teleswitch Agent	Teleswitch Agent
UMSO	Unmetered Supplies Operator
AMVLP	Asset Metering Virtual Lead Party

Note that Elexon will raise a Market Domain Data (MDD) Change Request to add 'AMVLP' as a new Participant Role, which is required before a Participant may become a Data Transfer Participant, in March/April 2022.

2. New Instances of Existing Market Messages

Elexon proposes that the new instances of the 20 existing Market Messages ~~DTN Data Flows~~ set out below be introduced for P375.

2.1 BSC-owned data flows

2.1.1 D0383 'Notification of Commissioning Information'

Flow Name:	**Notification of Commissioning Information**
Flow Description:	Half Hourly notification of Commissioning information which is transferred when there is a new connection, change in equipment, configuration or upon Change of Agent.

From	To	Version
Distributor	MOP	12.3
MOP	MOP	12.3
AMVLP	MOP	

Data Items:

Reference	Item Name
J2226	Burden on CT
J2229	Burden on VT
J2224	Commissioning Agent MPID
J2223	Commissioning Date
J2232	Compensation Applied to Meter
J0505	CT Class
J2219	CT Commissioning Information Available
J0506	CT Rating
J0454	CT Ratio
J2225	CT Serial Number
J2217	Feeder Id
J1684	Feeder Status
J0001	Market Participant Role Code
J2218	Measurement Transformers Located at Defined Metering Point
J2231	Meter Accuracy Class
J2221	Meter Commissioning Information Available
J0004	Meter Id (Serial Number)
J0003	MPAN Core
J2216	Number of Feeders
J0427	Number of Phases
J2227	Overall Burden on CT (VA)
J2230	Overall Burden on VT (VA)
J2222	Phase Id
J0677	VT Class
J2220	VT Commissioning Information Available
J0678	VT Rating
J0455	VT Ratio
J2228	VT Serial Number

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
95L	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Number of Feeders
96L	Feeder Information	1-*			G							
						1						Feeder Id
						1						Feeder Status
						1						Measurement Transformers Located at Defined Metering Point
						1						Number of Phases
						1						CT Commissioning Information Available
						1						VT Commissioning Information Available
						1						Meter Commissioning Information Available
97L	CT Details	1-*	If CT Commissioning Information Available =Y			G						
							1					Phase Id
							1					Commissioning Date
							1					Market Participant Role Code
							1					Commissioning Agent MPID
							1					CT Serial Number
							1					CT Class
							1					CT Rating
							1					CT Ratio
							1					Burden on CT
							O					Overall Burden on CT (VA)
98L	VT Details	1-*	If VT Commissioning Information Available =Y			G						
							1					Phase Id
							1					Commissioning Date
							1					Market Participant Role Code
							1					Commissioning Agent MPID
							1					VT Serial Number
							1					VT Class
							1					VT Rating
							1					VT Ratio
							1					Burden on VT
							O					Overall Burden on VT (VA)
99L	Meter Details	0-*	If Meter Commissioning Information Available = Y			G						
							1					Commissioning Date
							1					Commissioning Agent MPID
							1					Meter Id (Serial Number)
							1					Meter Accuracy Class
							1					CT Ratio
							O					VT Ratio
							1					Compensation Applied to Meter

Notes:	See Annex C for Flow Notes Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.1.2 D0384 'Notification of Commissioning Status'

Flow Name:	Notification of Commissioning Status
Flow Description:	Half Hourly notification of Commissioning status when there is a new connection, change in equipment, configuration or upon Change of Agent..

From	To	Version
Distributor	Supplier	12.3
MOP	MOP	12.3
MOP	Supplier	12.3
Supplier	Distributor	12.3
Supplier	MOP	12.3
AMVLP	MOP	
MOP	AMVLP	

Data Items:

Reference	Item Name
J2215	D0170 Rejection Description
J2236	Defect/Omission Reason
J2238	Defect/Omission Resolution Information
J2233	Measurement Transformer Commissioning Completed
J2234	MOA Commissioning Completed
J0003	MPAN Core
J2235	Overall Accuracy of Metering System within Limit(s) Defined within the Relevant BSC CoP.
J2237	Risk to Settlement

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
00M	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Measurement Transformer Commissioning Completed
					1							MOA Commissioning Completed
					1							Overall Accuracy of Metering System within Limit(s) Defined within the Relevant BSC CoP.
01M	Feeder Information	0-*			G							
						1						Defect/Omission Reason
						O						D0170 Rejection Description
						1						Risk to Settlement
						O						Defect/Omission Resolution Information

Notes:	See Annex C for Flow Notes

	Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2 REC-owned data flows

2.2.1 D0001 'Request Metering System Investigation

Flow Name:	**Request Metering System Investigation**
Flow Description:	Investigation into suspected metering fault due to possible MAR discrepancies, invalid meter readings, timing device or meter or communications fault..

From	To	Version
Distributor	HHDC	2.0
Distributor	NHHDC	2.0
Distributor	Supplier	3.1
HHDC	MOP	1.0
HHDC	Supplier	3.0
NHHDC	MOP	2.0
NHHDC	Supplier	3.1
NHHDR	NHHDC	5.0
Supplier	HHDC	2.0
Supplier	MOP	2.0
AMVLP	HHDC	
AMVLP	MOP	
HHDC	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0174	Appointment Date
J1012	Date Fault Suspected/Detected
J0292	Earliest Appointment Time
J0293	Latest Appointment Time
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0003	MPAN Core
J0173	Reason for Request
J0024	Site Visit Check Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
001	Metering Points for Investigation	1-*		G								
					1							MPAN Core
					O							Appointment Date
					O							Earliest Appointment Time
					O							Latest Appointment Time
002	Meters to be Investigated	1-*			G							
						1						Meter Id (Serial Number)
003	Meter Registers to be Investigated	1-*				G						
							1					Meter Register Id

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
							1					Reason for Request
							1					Date Fault Suspected/Detected
							O					Additional Information
759	Site Visit Information	0-*			G							
						1						Site Visit Check Code
						O						Additional Information

Notes:	Sufficient information to identify the nature of the fault must be given. This flow only to be used where the metering point is currently energised. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.2 D0002 'Fault Resolution Report or Request for Decision on Further Action

3. Flow Name:	**Fault Resolution Report or Request for Decision on Further Action**
Flow Description:	Fault Investigation has been carried out and a report on an action taken is being made or a request for a decision on next course of action..

From	To	Version
HHDC	Distributor	2.0
HHDC	Supplier	2.0
MOP	HHDC	1.0
MOP	MOP	11.3
MOP	NHHDC	2.0
MOP	Supplier	2.0
HHDC	AMVLP	
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J1012	Date Fault Suspected/Detected
J0014	Date of Action
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0003	MPAN Core
J0008	Nature of Maintenance
J0173	Reason for Request
J0024	Site Visit Check Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
004	Metering Points Inspected	1-*		G								
					1							MPAN Core
					1							Reason for Request
					1							Date Fault Suspected/Detected
005	Meter Detail per MPAN Core	1-*	If meter at metering point		G							
						1						Meter Id (Serial Number)
						O						Additional Information
006	Meter Registers Inspected	1-*				G						
							1					Meter Register Id
							O					Date of Action
							O					Nature of Maintenance
760	Site Visit Information	0-*			G							
						1						Site Visit Check Code
						O						Additional Information

Notes:	Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.3 D0005 'Instruction on Action

Flow Name:	**Instruction on Action**
Flow Description:	Request for action on metering systems..

From	To	Version
Distributor	HHDC	3.2
HHDC	MOP	2.0
MOP	HHDC	3.2
Supplier	HHDC	1.0
Supplier	MOP	2.0
Supplier	NHHDC	1.0
AMVLP	HHDC	
AMVLP	MOP	
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0174	Appointment Date
J0028	Date Action Required By
J0292	Earliest Appointment Time
J0088	Effective to Settlement Date {MACDC}
J0293	Latest Appointment Time
J0004	Meter Id (Serial Number)
J0003	MPAN Core
J0173	Reason for Request
J0007	Requested Action Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
017	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Reason for Request
					O							Appointment Date
					O							Earliest Appointment Time
					O							Latest Appointment Time
018	Meters	1-*			G							
						O						Meter Id (Serial Number)
						O						Additional Information
019	Requested Actions	1-*				G						
							1					Requested Action Code
020	Action Required By	1	If Requested Action Code not equal to '02'				G					
								1				Date Action Required By
021	Settlement Date	1	If Requested Action Code = '02'				G					
								1				Effective to Settlement Date {MACDC}

Notes:	Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.4 D0008 'Meter Advance Reconciliation Report'

Flow Name:	**Meter Advance Reconciliation Report**
Flow Description:	Cumulative reading from HH Meters (MIST/MOST) for performing meter advance reconciliation..

From	To	Version
HHDC	Distributor	1.0
HHDC	Supplier	1.0
HHDC	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0273	MAR Percentage Difference
J0041	MAR Status
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0003	MPAN Core
J1019	Reading Date & Time in UTC
J0171	Reading Type
J0040	Register Reading
J0024	Site Visit Check Code
J0272	Total Period Metered Consumption

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
022	MPAN Cores	1-*		G								
					1							MPAN Core
					1							MAR Status
023	Meter Consumption Summary	0-*			G							
						1						Meter Id (Serial Number)
						1						Reading Type
						1						Total Period Metered Consumption
						1						MAR Percentage Difference
024	Register Readings	0-*				G						
							1					Meter Register Id
							1					Reading Date & Time in UTC
							1					Register Reading
025	Site Visit Information	0-*			G							
						1						Site Visit Check Code
						O						Additional Information

Notes:	This flow reports on the results of Meter Advance Reconciliation (MAR) for half-hourly meters, and includes the MAR reading and sum of half-hourly advances for the MAR period. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.5 D0010 'Meter Readings'

Flow Name:	**Meter Readings**
Flow Description:	Cumulative readings and maximum demand readings..

From	To	Version
Distributor	NHHDC	11.1
HHDC	Distributor	11.1
HHDC	HHDC	11.1
HHDC	Supplier	11.1
MOP	Distributor	11.1
MOP	HHDC	11.1
MOP	MOP	11.3
MOP	NHHDC	11.1
MOP	Supplier	11.1
NHHDC	Distributor	11.1
NHHDC	NHHDC	11.1
NHHDC	Supplier	11.1
NHHDR	NHHDC	11.1
Supplier	Distributor	11.9
Supplier	NHHDC	11.1
Supplier	Supplier	11.6
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0022	BSC Validation Status
J0044	MD Reset Date & Time
J0004	Meter Id (Serial Number)
J0045	Meter Reading Flag
J0332	Meter Reading Reason Code
J0047	Meter Reading Status
J0010	Meter Register Id
J0003	MPAN Core
J1013	Number of MD Resets
J0016	Reading Date & Time
J1888	Reading Method
J0171	Reading Type
J0040	Register Reading
J0024	Site Visit Check Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
026	MPAN Cores	1-*		G								
					1							MPAN Core
					1							BSC Validation Status
027	Site Visit Information	0-*			G							
						1						Site Visit Check Code
						O						Additional Information
028	Meter/Reading Types	1-*			G							
						1						Meter Id (Serial Number)
						1						Reading Type

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
029	Site Visit Information	0-*				G						
							1					Site Visit Check Code
							O					Additional Information
030	Register Readings	0-*				G						
							1					Meter Register Id
							1					Reading Date & Time
							1					Register Reading
							O					MD Reset Date & Time
							O					Number of MD Resets
							O					Meter Reading Flag
							1					Reading Method
032	Meter Reading Validation Result	1	Meter Reading Flag = FALSE				G					
								1				Meter Reading Reason Code
								1				Meter Reading Status
033	Site Visit Information	0-*					G					
								1				Site Visit Check Code
								O				Additional Information

Notes:	NHH - This flow is for notification of validated/invalid non half-hourly meter readings and includes optional fields for any site visit check information. In Change of Supplier processes this flow can be used to communicate candidate Change of Supplier readings. In particular, the Supplier to Supplier instance is used to communicate unvalidated readings taken directly from smart meters. Additional processing rules for DDC enrolled smart meters are contained in Annex C. It is also required to pass any remotely taken reads to NHHDCs for use in the Change of Supplier process. For all other cases Supplier must utilise D0071 to send candidate reads to NHHDC. For the avoidance of doubt NHHDC will always confirm a Change of Supplier reading using D0086. HH - The instances of the D0010 from MOP to Supplier and MOP to Distributor should only be used when the meter is Half-Hourly and the reading is either "initial" and/or "final". The instance of the D0010 from Supplier to Distributor should only be used where readings are taken (or sourced) by the Supplier from smart meters. The flow D0086 must always reflect this current flow. Where confirming a reading received on a D0071 where "Reading Type" has been populated with the value 'O' (Old Supplier's estimated CoS Reading) the NHHDC should populate the data item (Reading Type) with 'D' to signify that the reading has been Deemed or Estimated and is in line with meter reading history. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.6 D0011 'Agreement of Contractual Terms'

Flow Name:	**Agreement of Contractual Terms**
Flow Description:	Acknowledgement of appointment and terms or renewal of contractual terms..

From	To	Version
HHDA	Supplier	1.0
HHDC	Supplier	1.0
MOP	Supplier	1.0
NHHDA	Supplier	1.0
NHHDC	Supplier	1.0
HHDC	AMVLP	

Data Items:

Reference	Item Name
J0048	Contract Reference
J0219	Effective from Date {DCA}
J0210	Effective from Date {MOA}
J0334	Effective from Settlement Date {DAA}
J0049	Effective from Settlement Date {REGI}
J0003	MPAN Core
J0275	Service Level Reference
J0274	Service Reference

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
034	Contract Terms Data	1-*		G								
					1							MPAN Core
					1							Contract Reference
					1							Effective from Settlement Date {REGI}
035	DC Effective Date	1	If Data Collector Appointment		G							
						1						Effective from Date {DCA}
036	MOP Effective Date	1	If Meter Operator Appointment		G							
						1						Effective from Date {MOA}
037	DA Effective Date	1	If Data Aggregator Appointment		G							
						1						Effective from Settlement Date {DAA}
038	Agreed Service Details	0-*			G							
						1						Service Reference
						1						Service Level Reference

Notes:	See Rejection of Agent appointment flow (D0261). Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.7 D0022 'Estimated Half Hourly Data Report'

Flow Name:	**Estimated Half Hourly Data Report**
Flow Description:	A report listing the dates over a period for which HH data has been estimated including the total consumption estimated..

From	To	Version
HHDC	Distributor	1.0
HHDC	Supplier	1.0
HHDC	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0018	Date (Midnight to Midnight UTC)
J0100	Estimation Reason Code
J0103	Measurement Quantity Id
J0003	MPAN Core
J0102	Number of Periods Estimated
J0281	Total kWh (and kVArh) of Estimated Periods

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
062	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Estimation Reason Code
					O							Additional Information
063	Dates for Which HH Data Estimated	1-*			G							
						1						Date (Midnight to Midnight UTC)
						1						Number of Periods Estimated
						1						Measurement Quantity Id
						1						Total kWh (and kVArh) of Estimated Periods

Notes:	This is a report (by MSID) showing dates for which meter period data has been estimated and includes total consumption estimated and number of half-hour periods affected. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.8 D0134 'Request to Change Energisation Status'

Flow Name:	**Request to Change Energisation Status**
Flow Description:	A request for the energisation status of a metering point to be changed..

From	To	Version
Supplier	Distributor	2.0
Supplier	MOP	2.0
AMVLP	MOP	

Data Items:

Reference	Item Name
J0174	Appointment Date
J0489	Contact Name
J0375	Customer Name
J0292	Earliest Appointment Time
J0080	Energisation Status
J0293	Latest Appointment Time
J1046	Mailing Address Line 1
J1047	Mailing Address Line 2
J1048	Mailing Address Line 3
J1049	Mailing Address Line 4
J1050	Mailing Address Line 5
J1051	Mailing Address Line 6
J1052	Mailing Address Line 7
J1053	Mailing Address Line 8
J1054	Mailing Address Line 9
J1011	Maximum Power Requirement
J0004	Meter Id (Serial Number)
J0419	Meter Location
J1036	Metering Point Address Line 1
J1037	Metering Point Address Line 2
J1038	Metering Point Address Line 3
J1039	Metering Point Address Line 4
J1040	Metering Point Address Line 5
J1041	Metering Point Address Line 6
J1042	Metering Point Address Line 7
J1043	Metering Point Address Line 8
J1044	Metering Point Address Line 9
J0263	Metering Point Postcode
J0003	MPAN Core
J0673	Requested Energisation Status

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
255	MPAN Cores	1-*		G								
					1							MPAN Core
					O							Metering Point Address Line 1
					O							Metering Point Address Line 2
					O							Metering Point Address Line 3
					O							Metering Point Address Line 4
					O							Metering Point Address Line 5

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
					O							Metering Point Address Line 6
					O							Metering Point Address Line 7
					O							Metering Point Address Line 8
					O							Metering Point Address Line 9
					O							Metering Point Postcode
					1							Energisation Status
					1							Requested Energisation Status
					O							Appointment Date
					O							Earliest Appointment Time
					O							Latest Appointment Time
256	Meter Detail per MPAN Core	0-*			G							
						1						Meter Id (Serial Number)
						1						Meter Location
						O						Customer Name
						O						Mailing Address Line 1
						O						Mailing Address Line 2
						O						Mailing Address Line 3
						O						Mailing Address Line 4
						O						Mailing Address Line 5
						O						Mailing Address Line 6
						O						Mailing Address Line 7
						O						Mailing Address Line 8
						O						Mailing Address Line 9
						O						Maximum Power Requirement
						O						Contact Name

Notes:	Half hour Data Collectors are not involved in the change of energisation process. This flow is not for use with prepayment meters. Though all of the address data items included in this flow are defined within the structure as being optional, the address itself is mandatory and must be included in the flow. The use of any individual address item cannot be made mandatory as, in the absence of an agreed address structure for all flows, an address may be constructed from any combination of the Address Line and Postcode items. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.9 D0139 'Confirmation or Rejection of Energisation Status Change'

Flow Name:	**Confirmation or Rejection of Energisation Status Change**
Flow Description:	This flow confirms that the Energisation Status of a metering point has been changed, or notifies that a change was not possible and gives the reason for failure.

From	To	Version
Distributor	MOP	12.8
Distributor	Supplier	12.8
MOP	Distributor	12.8
MOP	HHDC	12.8
MOP	NHHDC	12.8
MOP	Supplier	12.8
MOP	AMVLP	

Data Items:

Reference	Item Name
J0014	Date of Action
J0080	Energisation Status
J1253	Failure to Energise or De-Energise Reason Code
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0003	MPAN Core
J0171	Reading Type
J0040	Register Reading
J0024	Site Visit Check Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
261	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Energisation Status
					1							Date of Action
					O							Failure to Energise or De-Energise Reason Code
					O							Site Visit Check Code
262	Meter Detail per MPAN Core	0-*			G							
						1						Meter Id (Serial Number)
263	Register Details per Meter	0-*				G						
							1					Meter Register Id
							1					Reading Type
							O					Register Reading

Notes:	Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.10 D0142 'Request for Installation or Change to a Metering System Functionality or the Removal of All Meters'

Flow Name:	**Request for Installation or Change to a Metering System Functionality or the Removal of All Meters**
Flow Description:	Request is being made and information provided to allow removal, replacement or installation of a meter.

From	To	Version
Supplier	MOP	2.0
AMVLP	MOP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0174	Appointment Date
J0386	Communications Method
J0292	Earliest Appointment Time
J0293	Latest Appointment Time
J1036	Metering Point Address Line 1
J1037	Metering Point Address Line 2
J1038	Metering Point Address Line 3
J1039	Metering Point Address Line 4
J1040	Metering Point Address Line 5
J1041	Metering Point Address Line 6
J1042	Metering Point Address Line 7
J1043	Metering Point Address Line 8
J1044	Metering Point Address Line 9
J0263	Metering Point Postcode
J1267	Metering System Non Settlement Functionality Code
J0003	MPAN Core
J1020	Remove Metering Point Meters
J0673	Requested Energisation Status
J0098	Retrieval Method
J0076	Standard Settlement Configuration Id

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
267	MPAN Cores	1-*		G								
					1							MPAN Core
					O							Metering Point Address Line 1
					O							Metering Point Address Line 2
					O							Metering Point Address Line 3
					O							Metering Point Address Line 4
					O							Metering Point Address Line 5
					O							Metering Point Address Line 6
					O							Metering Point Address Line 7
					O							Metering Point Address Line 8

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
					O							Metering Point Address Line 9
					O							Metering Point Postcode
					O							Appointment Date
					O							Earliest Appointment Time
					O							Latest Appointment Time
					1							Retrieval Method
					O							Communications Method
					1							Requested Energisation Status
					O							Standard Settlement Configuration Id
					O							Additional Information
					O							Remove Metering Point Meters
					O							Metering System Non Settlement Functionality Code

Notes:	Though all of the address data items included in this flow are defined within the structure as being optional, the address itself is mandatory and must be included in the flow. The use of any individual address item cannot be made mandatory as, in the absence of an agreed address structure for all flows, an address may be constructed from any combination of the Address Line and Postcode items. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.11 D0148 'Notification of Change to Other Parties'

Flow Name:	Notification of Change to Other Parties
Flow Description:	Notification to a MOp or DC of any change to relevant Agent appointments and/or terminations for the metering point for the three functional processes: new connection, change of supplier and change of agent(s).

From	To	Version
Supplier	HHDC	2.0
Supplier	MOP	2.0
Supplier	NHHDC	2.0
AMVLP	HHDC	
AMVLP	MOP	

Data Items:

Reference	Item Name
J0459	Agent Status
J0183	Data Aggregator Id
J0205	Data Collector Id
J0219	Effective from Date {DCA}
J0210	Effective from Date {MOA}
J0334	Effective from Settlement Date {DAA}
J0049	Effective from Settlement Date {REGI}
J0399	Effective to Date {DCA}
J0360	Effective to Date {MOA}
J0340	Effective to Settlement Date {DAA}
J0178	Meter Operator Id
J0003	MPAN Core

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
270	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Effective from Settlement Date {REGI}
271	Data Collector Appointment or Termination Details	0-*			G							
						1						Data Collector Id
						1						Agent Status
272	Effective from Date	0-1				G						
							1					Effective from Date {DCA}
273	Effective to Date	0-1				G						
							O					Effective to Date {DCA}
274	Meter Operator Appointment or Termination Details	0-*			G							
						1						Meter Operator Id
						1						Agent Status
275	Effective from Date	0-1				G						
							1					Effective from Date {MOA}
276	Effective to Date	0-1				G						
							O					Effective to Date {MOA}
277	Data Aggregator Appointment or Termination Details	0-*			G							
						1						Data Aggregator Id
						1						Agent Status
278	Effective from Date	0-1				G						

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
							1					Effective from Settlement Date {DAA}
279	Effective to Date	0-1				G						
							O					Effective to Settlement Date {DAA}

Notes:	The content of this flow will depend on which Agents have changed, and which Agent is the recipient of the information. The D0148 should be used to update and supersede only that information which the agent needs to know and is currently unaware of. For a definition of the content of the flow in the NHH and HH markets see the scenarios contained in Annex C. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.12 D0151 'Termination of Appointment or Contract by Supplier'

Flow Name:	**Termination of Appointment or Contract by Supplier**
Flow Description:	This is a notification that an existing appointment or contract is to be terminated by a Supplier, including the situation when there has been an upheld objection to Change of Supplier..

From	To	Version
Supplier	HHDA	3.0
Supplier	HHDC	1.0
Supplier	MOP	1.0
Supplier	NHHDA	3.0
Supplier	NHHDC	1.0
AMVLP	HHDC	
AMVLP	MOP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0049	Effective from Settlement Date {REGI}
J0399	Effective to Date {DCA}
J0360	Effective to Date {MOA}
J0340	Effective to Settlement Date {DAA}
J0003	MPAN Core
J1194	New Supplier Id
J0279	Termination Reason

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
297	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Effective from Settlement Date {REGI}
					1							Termination Reason
					O							Additional Information
298	Effective to Date	1	If MOP termination		G							
						1						Effective to Date {MOA}
99H	CoS Details	1	If Termination Reason = LC			G						
							1					New Supplier Id
299	Effective toDate	1	If DC termination		G							
						1						Effective to Date {DCA}
300	Effective to Date	1	If DA termination		G							
						1						Effective to Settlement Date {DAA}

Notes:	If the Agent requires further information than that provided by the Termination Reason this should be detailed in the Additional Information field. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.13 D0155 'Notification of Meter Operator or Data Collector Appointment and Terms'

Flow Name:	**Notification of Meter Operator or Data Collector Appointment and Terms**
Flow Description:	This is a notification of a new or changed appointment to a metering system and of the contractual terms to be applied.

From	To	Version
Supplier	HHDC	2.0
Supplier	MOP	2.0
Supplier	NHHDC	2.0
AMVLP	HHDC	
AMVLP	MOP	

Data Items:

Reference	Item Name
J0048	Contract Reference
J0219	Effective from Date {DCA}
J0210	Effective from Date {MOA}
J0049	Effective from Settlement Date {REGI}
J0066	GSP Group Id
J1036	Metering Point Address Line 1
J1037	Metering Point Address Line 2
J1038	Metering Point Address Line 3
J1039	Metering Point Address Line 4
J1040	Metering Point Address Line 5
J1041	Metering Point Address Line 6
J1042	Metering Point Address Line 7
J1043	Metering Point Address Line 8
J1044	Metering Point Address Line 9
J0263	Metering Point Postcode
J0003	MPAN Core
J0277	Regular Reading Cycle
J0696	Required First Scheduled Read Date
J0098	Retrieval Method
J0275	Service Level Reference
J0274	Service Reference
J2177	Smart CoS Process Indicator

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
315	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Effective from Settlement Date {REGI}
					O							Metering Point Address Line 1
					O							Metering Point Address Line 2
					O							Metering Point Address Line 3
					O							Metering Point Address Line 4
					O							Metering Point Address Line 5

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
					O							Metering Point Address Line 6
					O							Metering Point Address Line 7
					O							Metering Point Address Line 8
					O							Metering Point Address Line 9
					O							Metering Point Postcode
					1							Contract Reference
					1							Retrieval Method
					1							GSP Group Id
320	Reading Cycle Details	1	If Data Collector flow		G							
						1						Regular Reading Cycle
						O						Required First Scheduled Read Date
316	DC Effective Date	1	If Data Collector flow		G							
						1						Effective from Date {DCA}
317	MOP Effective Date	1	If Meter Operator flow		G							
						1						Effective from Date {MOA}
318	Agreed Service Details	1-*			G							
						1						Service Reference
						1						Service Level Reference
22L	Smart CoS Process	0-1			G							
						1						Smart CoS Process Indicator

Notes:	Required First Scheduled Read Date is an optional field to be used where there is a service level agreement between a Supplier and an Agent which allows the Supplier to specify the Scheduled Read Date. This flow includes Unmetered Supply Requirements. Though all of the address data items included in this flow are defined within the structure as being optional, the address itself is mandatory and must be included in the flow. The use of any individual address item cannot be made mandatory as, in the absence of an agreed address structure for all flows, an address may be constructed from any combination of the Address Line and Postcode items. Postcode should only be omitted if the Post Office has not generated one for the premises. The Supplier may use the Smart CoS Process Indicator to request that the NHHDC or NHH MOP should use the Change of Supplier process for smart meters (as introduced by BSC Modification P302). The Smart CoS Process group is optional to allow Suppliers to make alternative bi-lateral arrangements for requesting their agents to use the smart process. For the avoidance of doubt, unless other arrangements have been agreed between a Supplier and their agents, legacy processes will be followed if the Smart CoS Process group is not populated. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.14 D0170 'Request for Metering System Related Details'

Flow Name:	**Request for Metering System Related Details**
Flow Description:	On appointment or change of agent appointment, metering system related details are requested to be transferred.

From	To	Version
HHDC	HHDC	2.0
MOP	Distributor	3.2
MOP	MOP	2.0
NHHDC	MOP	4.0
NHHDC	NHHDC	2.0
NHHDC	Supplier	2.0
Supplier	HHDC	2.0
Supplier	MOP	2.0
Supplier	NHHDC	2.0
AMVLP	MOP	
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0028	Date Action Required By
J0003	MPAN Core
J0927	New Data Collector Id
J0926	New Meter Operator Id
J0007	Requested Action Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
350	Request Details	1-*		G								
					1							Date Action Required By
					1							Requested Action Code
					O							Additional Information
					O							New Meter Operator Id
					O							New Data Collector Id
351	MPAN Cores	1-*			G							
						1						MPAN Core

Notes:	See Annex C for Flow Notes Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.15 D0221 'Notification of Failure to Install or Energise Metering System'

Flow Name:	**Notification of Failure to Install or Energise Metering System**
Flow Description:	Notification that a meter could not be installed or a system energised due to faults or access problems..

From	To	Version
MOP	Supplier	3.0
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0174	Appointment Date
J1036	Metering Point Address Line 1
J1037	Metering Point Address Line 2
J1038	Metering Point Address Line 3
J1039	Metering Point Address Line 4
J1040	Metering Point Address Line 5
J1041	Metering Point Address Line 6
J1042	Metering Point Address Line 7
J1043	Metering Point Address Line 8
J1044	Metering Point Address Line 9
J0003	MPAN Core
J0024	Site Visit Check Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
504	MPAN Cores	1-*		G								
					1							MPAN Core
					O							Metering Point Address Line 1
					O							Metering Point Address Line 2
					O							Metering Point Address Line 3
					O							Metering Point Address Line 4
					O							Metering Point Address Line 5
					O							Metering Point Address Line 6
					O							Metering Point Address Line 7
					O							Metering Point Address Line 8
					O							Metering Point Address Line 9
					1							Appointment Date
					1							Site Visit Check Code
					O							Additional Information

Notes:	Though all of the address data items included in this flow are defined within the structure as being optional, the address itself is mandatory and must be included in the flow. The use of any individual address item cannot be made mandatory as, in the absence of an agreed address structure for all flows, an address may be constructed from any combination of the Address Line and Postcode items. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.16 D0261 'Rejection of Agent Appointment'

Flow Name:	**Rejection of Agent Appointment**
Flow Description:	Rejection of appointment and terms of renewal of contractual terms..

From	To	Version
HHDA	Supplier	3.1
HHDC	Supplier	3.1
MOP	Supplier	3.1
NHHDA	Supplier	3.1
NHHDC	Supplier	3.1
HHDC	AMVLP	
MOP	AMVLP	

Data Items:

Reference	Item Name
J0048	Contract Reference
J0049	Effective from Settlement Date {REGI}
J0003	MPAN Core
J1016	Rejection of Agent Appointment Code

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
761	Rejection of Contract Details	1-*		G								
					1							MPAN Core
					1							Contract Reference
					1							Effective from Settlement Date {REGI}
					1							Rejection of Agent Appointment Code

Notes:	Agents are not required to check all conditions implied by the Rejection of Agent Appointment Codes. The codes merely allow appointment rejection where the Agent(s) has made the check(s) and wishes to reject the appointment. Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.17 D0268 'Half Hourly Meter Technical Details'

Flow Name:	**Half Hourly Meter Technical Details**
Flow Description:	Half Hourly Meter Technical Details are transferred when there is a change in equipment, configuration or upon change of Agent.

From	To	Version
MOP	Distributor	13.0
MOP	HHDC	13.0
MOP	MOP	13.0
MOP	Supplier	13.0
MOP	AMVLP	

Data Items:

Reference	Item Name
J0012	Additional Information
J0476	Associated Meter Id
J0477	Associated Meter Register Id
J1260	Baud Rate
J0382	Channel Number
J0385	Communications Address
J2263	Communications Address B
J0386	Communications Method
J2264	Communications Method B
J1709	Communications Provider
J1687	Complex Site Indicator
J0454	CT Ratio
J0848	Date of Meter Installation
J1269	Date of Meter Removal
J1690	Dial In/ Dial Out Indicator
J1254	Effective from Settlement Date {MSMTD}
J1689	Event Indicator
J1684	Feeder Status
J1685	Feeder Status Effective From Date
J0410	Manufacturers Make & Type
J0103	Measurement Quantity Id
J1677	Meter Asset Provider Id
J0418	Meter COP
J1686	Meter COP Issue Number
J0501	Meter Current Rating
J1025	Meter Equipment/Service Location
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0475	Meter Register Multiplier
J1691	Modem Type
J0003	MPAN Core
J0427	Number of Phases
J0478	Number of Register Digits
J0428	Outstation Id
J1688	Outstation Multiplier
J0469	Outstation Number of Channels
J1256	Outstation Number of Dials
J0470	Outstation Password Level 1
J1257	Outstation Password Level 2
J1713	Outstation Password Level 3
J0464	Outstation PIN

Reference	Item Name
J0471	Outstation Type
J1714	Outstation Username Level 1
J1715	Outstation Username Level 2
J1716	Outstation Username Level 3
J2266	Phase/wire
J0432	Pulse Multiplier
J1258	Reader Password
J1261	Sequence MPAN Core
J1262	Sequence Outstation Id
J2265	SIM Serial Number
J1255	System Voltage
J0455	VT Ratio

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
01A	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Effective from Settlement Date {MSMTD}
					1							Meter COP
					O							Meter COP Issue Number
					1							Complex Site Indicator
					O							Meter Equipment/Service Location
					1							System Voltage
					1							Number of Phases
					1							Event Indicator
					O							Additional Information
02A	Outstation Details	1-*	If Meter at metering point		G							
						1						Outstation Id
						1						Outstation Type
						O						Modem Type
						1						Outstation Number of Channels
						1						Outstation Number of Dials
						O						Outstation PIN
						O						Outstation Username Level 1
						O						Outstation Password Level 1
						O						Outstation Username Level 2
						O						Outstation Password Level 2
						O						Outstation Username Level 3
						O						Outstation Password Level 3
						O						Reader Password
						1						Communications Method
						O						Communications Method B
						O						Dial In/ Dial Out Indicator
						O						Communications Address
						O						Communications Address B
						O						Baud Rate
						O						Communications Provider
						O						SIM Serial Number
						O						Sequence MPAN Core
						O						Sequence Outstation Id
03A	Meter Details	1-*	If Meter at metering point		G							
						1						Meter Id (Serial Number)
						1						Manufacturers Make & Type
						1						Date of Meter Installation
						O						Meter Current Rating

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
						O						VT Ratio
						O						CT Ratio
						O						Phase/wire
						1						Feeder Status
						1						Feeder Status Effective From Date
						1						Meter Asset Provider Id
04A	Meter Register Details	1-*				G						
							1					Meter Register Id
							1					Outstation Id
							1					Channel Number
							1					Pulse Multiplier
							1					Meter Register Multiplier
							1					Outstation Multiplier
							1					Measurement Quantity Id
							1					Number of Register Digits
							O					Associated Meter Id
							O					Associated Meter Register Id
81C	Meters Removed	0-*			G							
						1						Meter Id (Serial Number)
						1						Date of Meter Removal
						1						Meter Asset Provider Id

Notes:	See Annex C for Flow Notes Where an AMVLP (Asset Metering Virtual Lead Party) is involved, the MPAN Core must contain an AMSID (Asset Metering System Identifier) and not an MPAN.

2.2.18 D0302 Notification of Customer Details

Flow Name:	**Notification of Customer Details**
Flow Description:	The Supplier will inform the participants of customer contact address and mailing address details..
Flow Ownership:	MRA

From	To	Version
Supplier	Distributor	11.2
Supplier	HHDC	11.2
Supplier	MOP	11.2
Supplier	NHHDC	11.2
AMVLP	HHDC	
AMVLP	MOP	

Data Items:

Reference	Item Name
J0012	Additional Information
J2060	Contact Email
J0491	Contact Fax Number
J0489	Contact Name
J0490	Contact Telephone Number
J0375	Customer Name
J0693	Customer Password
J0694	Customer Password Effective from Date
J1845	Customer Preferred Contact Method
J1674	Delete Mailing Address Data Held
J0049	Effective from Settlement Date {REGI}
J1046	Mailing Address Line 1
J1047	Mailing Address Line 2
J1048	Mailing Address Line 3
J1049	Mailing Address Line 4
J1050	Mailing Address Line 5
J1051	Mailing Address Line 6
J1052	Mailing Address Line 7
J1053	Mailing Address Line 8
J1054	Mailing Address Line 9
J0566	Mailing Address Postcode
J1011	Maximum Power Requirement
J0003	MPAN Core
J0692	Special Access

Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
68C	MPAN Cores	1-*		G								
					1							MPAN Core
					1							Effective from Settlement Date {REGI}
69C	Customer Details	0-1			G							
						1						Customer Name
						O						Additional Information
						O						Customer Password
						O						Customer Password Effective from Date

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
						O						Special Access
						O						Maximum Power Requirement
15J	Contact Name	0-*			G							
						1						Contact Name
						O						Customer Preferred Contact Method
16J	Contact Telephone	0-*				G						
							1					Contact Telephone Number
							O					Contact Fax Number
17J	Contact Email	0-*				G						
							1					Contact Email
70C	Mailing Address	0-1			G							
						O						Delete Mailing Address Data Held
						O						Mailing Address Line 1
						O						Mailing Address Line 2
						O						Mailing Address Line 3
						O						Mailing Address Line 4
						O						Mailing Address Line 5
						O						Mailing Address Line 6
						O						Mailing Address Line 7
						O						Mailing Address Line 8
						O						Mailing Address Line 9
						O						Mailing Address Postcode