

## MRA Data Transfer Catalogue (DTC) Change Proposal Form

<b>YOUR REFERENCE</b>		<b>DTC CP NUMBER</b> (assigned by Genserv Change Co-ordination)	<b>3188</b>
<b>ORIGINATOR</b> (MRA Change Administrator)		<b>SPONSOR APPROVAL</b> (MRA Contract Manager)	
Originator name:	Lindsey Hayward (On Behalf of D0268 Working Group)	Name:	Terry Marquand
Company:	Genserv	Company:	Powergen
Telephone number:	020 7090 1022	Telephone number:	01473 552636
Fax number:		Signature:	
Date:	16 December 2002	Date:	03 January 2003
<b>CHANGE PROPOSAL TITLE</b>			
D0268 changes as proposed by D0268 Working Group.			
<b>DESCRIPTION OF CHANGE</b>			
<p>Various changes to the D0268 data flow to tackle the current problems caused by the current flow format. Details are outlined below.</p> <p>If agreed, this change proposal will supersede DTCCP3131, 3132, 3133, &amp; 3135. This change proposal either mirrors or adds to the agreed DTC CP's as stated above, with the exception of DTC CP3133. A solution has been proposed whereby use of the Outstation PIN would cover the 4 proposed LAN valid set options, stated within DTC CP3133. A note to this effect will appear in Annex C of the DTC.</p>			
Attachments Supplied?	<input checked="" type="checkbox"/>		
<b>BUSINESS JUSTIFICATION FOR CHANGE</b>			

Proposed entries to Annex C of the DTC include an entry to establish the receipt of a D0268 as a full refresh. Other entries are included to support some of the following changes.

**a) New Data Items added-**

**1. 'Feeder Status' (Jxxxx) and 'Feeder Status Effective From Date' (Jxxxx) added to Group 03A as mandatory.**

When sites contain multiple feeders, without all feeders being active, the current D0268 does not inform which feeders are inactive and those that are active. This then causes the HHDC to send D0001's, informing the HHMO of a suspected metering fault, due to the failed responses when dialling to the meter. This new data item will allow the HHDC to be informed of the status of all feeders at each site.

**2. 'Complex Site Indicator' (Jxxxx) added to Group 01A as mandatory.**

Enabling the HHDC and Supplier to immediately identify the complex sites, as defined in BSCP502.

**3. 'Meter Asset Provider Id' (Jxxxx) added to Group 03A as mandatory.**

This is in support of the REMA design- in addition, the group identified that if the HHDC needs to access the meter and previous HHDC/ HHMO do not know the access passwords, the only other participant who holds this information is the Meter Owner (MAP). The HHDC would need to know whom to contact in this case.

**4. 'Outstation Multiplier' (Jxxxx) added to Group 04A as mandatory.**

Meters installed with separate outstations contain a built in multiplier that is used to convert the cumulative advance of all meter types. 'Outstation Multiplier' will allow for accurate details when performing a remote MAR.

**5. 'Event Indicator' (Jxxxx) added to Group 01A as mandatory.**

This new data item with its range of valid set options, will allow the MOP to advise the recipient the reason behind the D0268 data flow submission. [This has been created in order to assist HHDC's with reporting purposes only, and would not indicate the start of any processing of the D0268 dependent on the content.] Although this item is not currently contained within the D0150, it includes scenarios for use within the NHH market if required. An entry in Annex C will support the population of this data item.

**6. 'Meter COP Issue Number' (Jxxxx) added to group 01A as optional.**

Used to report the specific Meter COP Issue Number along with the Meter COP, this data item will allow more effective reporting of which Issue Number, associated with the Meter COP is issued to the Metering Equipment. A rule is included within Annex C for population of the data item.

**7. 'Dial In/ Dial Out Indicator' (Jxxxx) added to Group 02A as optional.**

Allowing the efficient use of an existing customer line, avoiding conflict with any other use that the customer might have for the line.

**8. 'Modem Type' (Jxxxx) added to Group 02A as optional.**

This would benefit the HHDC by knowing what type of modem is installed at the meter; the dialling modem may require a particular set up string programmed before it will work, the baud rate clamped or a specific modem type. Performance & reliability can be greatly increased by matching meter modem types to dialling modem types and modems faults can be more readily identified.

**b) Removal of Data Items from D0268-**

**1. 'Measurement Class Id' (J0082) and 'Effective from Settlement Date {MSMC}' (J0307) removed from group 01A.**

This was originally included within the D0268 for the use of un-metered supplies, however it has not been used for this purpose. Also, it is not the responsibility of the MOP to allocate the correct MC.

**2. 'Energisation Status' (J0080) removed from group 01A.**

Currently there are high percentages of incorrect data entering settlements caused by DC's over estimating data for energised sites. The removal of this data item will decrease the volumes of inaccurate data reported and puts the emphasis on only sending the D139 where all feeders are de-energised/energised. The addition of 'Feeder Status' will indicate which feeders are active.

**c) Amendments to Data Items and Impact on Other Data Flows-**

**1. 'Outstation PIN' (J0464) amendment to the physical length to allow more characters to be populated.**

The physical length needs increasing to accommodate the reader password, as some MOPs utilise this data item in some cases for use of the Reader Password. – This is a null data item within D0150.

**2. 'Communications Method' (J0386), additions to valid set, HP- Permanent HH, HT- Temporary HH, IP – Internet Protocol and GS – GSM, and made mandatory.**

To enable the HHDC and Supplier to differentiate between sites where there are no remote communications installed, therefore hand held communication is needed. GSM and IP were deemed valid as options for the valid set, due to their increasing use within the HH market. If 'HT' or 'HP' is selected, the 'Communications Address' (J0385) should not be populated, therefore, in addition, a note should be added to Annex C, for the use of 'HT/HP' from the valid set. – This data item appears as null within D0150 and as optional within D0142.

**3. 'Meter COP' (J0418), amendment to the valid set to allow more efficient use of indicating each COP. Used in conjunction with 'Meter Cop Issue Number.'**

The current valid set does not allow all issues to be allocated against each CoP. These amendments will ensure that the correct CoP and Issue numbers are identified. - This is a null data item within the D0150.

**4. 'Outstation Password A' (J0470) item name changed to 'Outstation Password Level 1.'**

**5. 'Outstation Password B' (J1257) item name changed to 'Outstation Password Level 2.'**

**6. 'Outstation Password C' (J1258) item name changed to 'Reader Password.'**

Name changed to prevent confusion between level 1,2 and 3 passwords (as defined within the Codes of Practice) and Outstation Passwords, as level 3 passwords in particular, should not be sent over the DTN. DC's and MOPs should be the only parties with access to Level 2 passwords, however the Supplier/ Generator (Scotland) needs to know that a Level 2 exists. In addition, a note should be added to Annex C, for the population of 'Outstation Password Level 2.' - 'Outstation Password Level 1' appears within D0150, as null.

7. 'Previous MPAN Core' (J1261) item name changed to 'Sequence MPAN Core.'
8. 'Previous Outstation Id' (J1262) item name changed to 'Sequence Outstation Id.'

Item names changed to clarify the correct meaning in this instance of 'previous.' These data items only appear in D0268.

9. 'CT Ratio' (J0454) & 'VT Ratio' (J0455) moved from group 01A to group 03A.

The new positions of these data items allow the HHMOp to notify the HHDC and Supplier/ Generator (Scotland) of multiple CT and VT Ratios.

10. 'Channel Number' (J0382), valid set amended to allow use of leading zeros.

The population of leading zeros within this field are not permitted within the current constraints. This amendment will allow the correct channel number configurations to be populated. – This data item appears within D0150 as null.

11. 'Effective from Settlement Date (MSMTD)' (J1254), amendment to item description.

The amendment to item description, removes ambiguity by stating that this date includes representation of the date the meter was initially installed. Fundamental Meter Technical Details are signalled via this data item, the use of the 'Event Indicator' data item supports this. – This also appears as mandatory within D0149 & D0150.

12. 'Baud Rate' (J1260), amendment to item description.

The amendment to item description, removes ambiguity by specifying at what level the value is recorded. This data item only appears in D0268.

#### d) Additional Enhancements-

1. 'Additional Information' (J0012) added to group 01A as optional.

For use of population along with data item 'Event Indicator,' (Jxxxx) to allow for relevant information supporting valid set option, to be transmitted. Annex C entry supports this data item.

2. New optional Group named 'Meters Removed' added which contains 'Date of Meter Removal' (J1269), 'MAP Id' (Jxxxx) and 'Meter Id (Serial Number)' (J0004) as mandatory.

This new group will confirm and identify the details of a removed meter. This group shall only include meters that have been removed, therefore the flow shall only be sent in response to their removal (i.e. the removal of a meter is only notified once). An entry in Annex C will support this. This is consistent with the NHH Market (D0150).

3. Conditions placed on Groups 02A & 03A.

To provide for the new 'Meters Removed Group' conditions for Groups 02A & 03A are needed to state that these groups only need populating if a Meter is at the metering point. This is consistent with the NHH Market (D0150).

4. Population rules added to Annex C.

For avoidance of doubt, generic population rules along with those for specific scenarios and examples of data flows are described in Annex C.

5. An amendment to Annex A 28, to include data item 'Outstation Id' (J0428), allowing for the use of the underscore character within the population of this field. This would allow the correct population of the 'Outstation Id' as currently MV90 strips out other characters currently used, such as '-' and '.', and would prevent corruption of comms details.

**IMPACT ASSESSMENT** (Guidelines for suggesting implementation dates: 6 months min for changes impacting systems and software; 4 months min for changes impacting operational procedures; or 2 months min for changes to documentation only).

<b>Big Bang</b> (This is the default implementation method. Participants to implement change <u>on</u> the Implementation Date)	Implementation Date (NB MDNS Upgrades occur in May, August, November, February)	28 August 2003
<b>Optional</b> (Participants can implement at any time <u>from</u> the Implementation Date, as agreed between parties)	Implementation Date	
<b>Parallel Test</b> (Participants to <u>test from</u> Parallel Test Start Date as agreed between parties. Participants to implement change <u>on</u> Implementation Date. Please note that if Parallel Testing using a new Flow Version Number is Proposed, this CP needs to be accompanied by another CP to remove the old version number of the Flow.)	Parallel Test Start Date	
	Parallel Test End Date (Implementation Date default is 3 months after the Parallel Test Start Date)	
	Value of Test Flag (Only to be completed if a specific test flag is required)	
Identify any organisations impacted or associated changes required.	MOp, HHDC, Supplier, Generator (Scotland), Distributor	

#### REFERENCE TO DATA TRANSFER CATALOGUE

Catalogue version number:	7.3
* Data Flow reference & Version Number:	D0268
* Domain Name:	
* Data Item reference number:	Various
*Associated References:	DTC CP's- 3131, 3132, 3133, 3135, 3140 & 3146

**Please return the completed form to Alexis Nelson at Service Management  
Fax Number: 020 7090 1001 or Email Address: alexis.nelson@gemserv.co.uk**

**Item Name: Feeder Status**

**Item Reference:** Jxxxx  
**Item Ownership:** MRA  
**Item Description:** Identifies the Status of the Feeder.  
**Units:** None  
**Valid Set:** A Active  
I Inactive  
**Validation:** As Valid Set  
**Domain:** Code  
**Logical Format:** CHAR (1)  
**Physical Length:** 1  
**Notes:**

**Version History:**

Catalogue release change takes effect	CP No.	Brief description of the change and its reason
Version *.*	xxxx	New Data Item created.

**Item Name: Feeder Status Effective From Date**

**Item Reference:** Jxxxx  
**Item Ownership:** MRA  
**Item Description:** The date on which the Feeder Status is effective from.  
**Units:** None  
**Valid Set:** A valid date within the constraints of the format.  
**Validation:** As Valid Set  
**Domain:** Effective Date  
**Logical Format:** DATE  
**Physical Length:** 8  
**Notes:**

**Version History:**

Catalogue release change takes effect	CP No.	Brief description of the change and its reason
Version *.*	xxxx	New Data Item created.

**Item Name: Communications Method**

**Item Reference:** J0386  
**Item Ownership:** MRA  
**Item Description:** The means by which remote communications to an Outstation can be achieved.  
**Units:** None  
**Valid Set:** Values are: -  
CD Caller Display or Caller Line Identifier modem on PSTN

IS	ISDN Link
MS	Mains Signalling
PK	Paknet
PN	Private Networks
PS	PSTN (includes all mobile phone links, eg Vodafone, Cellnet, etc)
<u>HP</u>	<u>Permanent Hand Held Reads</u>
<u>HT</u>	<u>Temporary Hand Held Reads</u>
<u>GS</u>	<u>Global System for Mobile Communications (GSM)</u>
<u>IP</u>	<u>Internet Protocol</u>

**Validation:** As Valid Set

**Domain:** Code

**Logical Format:** CHAR (2)

**Physical Length:** 2

**Notes:**

### Version History:

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.1	1196	Values removed from Valid Set (HH Hand Held Device and MR Manual Reading). These are already found in Data Item Retrieval Method.
Version 3.2	2314	Data Item changed.
Version 4.4	2962	Valid Set description changed.
Version 5.1	3047	Value 'CD' added to Valid Set.
<u>Version*.*</u>	<u>xxxx</u>	<u>Values 'GS' 'HT' 'HP' &amp; 'IP' added to Valid Set</u>

**Item Name:** **Meter COP**

**Item Reference:** J0418

**Item Ownership:** MRA

**Item Description:** A reference to indicate to which COP the metering system is configured.

**Units:** None

**Valid Set:** Values are:-

~~last character should indicate issue number, eg CoP5~~

1	CoP 1
2	CoP 2
3	CoP 3
5 1	CoP 5 Issue 1
<del>5 2</del>	<del>CoP 5 Issue 2</del>
6a	CoP 6 (a)
6b	CoP 6 (b)
6c	CoP 6 (c)
6d	CoP 6 (d)
7	CoP 7
A	CoP A
B	CoP B
C	CoP C
D	CoP D
E	CoP E
F	CoP F
G	CoP G
H	CoP H
J	CoP J
<u>K1</u>	<u>CoP K1</u>
<u>K2</u>	<u>CoP K2</u>
N	Where a dispensation applies or installation is not CoP compliant

**Validation:** As Valid Set

**Domain:** String  
**Logical Format:** CHAR (3)  
**Physical Length:** 3  
**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.102	2432	Valid Set, Logical Format and Logical Length changed.
Version 3.2	2314	Data Item changed.
Version 4.4	2962	Valid Set description changed.
<u>Version *.*</u>	<u>xxxx</u>	<u>Valid Set changed.</u>

**Item Name:** **Meter COP Issue Number**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** A reference to indicate the Issue Number of the associated Meter COP.

**Units:** None

**Valid Set:** Positive integer within the constraints of the format.

**Validation:** As Valid Set

**Domain:** Integer

**Logical Format:** INT (2)

**Physical Length:** 2

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	New Data Item created.

**Item Name:** **Complex Site Indicator**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** The site is defined by the MOp as a complex site requiring a separate information sheet to enable the HHDC to correctly collect data from the site.

**Units:** None

**Valid Set:** Values are:  
F Not Complex  
T Complex

**Validation:** As Valid Set

**Domain:** Indicator

**Logical Format:** BOOLEAN

**Physical Length:** 1

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	Data Item created

**Item Name:** **Outstation Multiplier**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** The multiplier, which should be applied to an Outstation connected to a separate Meter, or to a Meter/Combined Outstation device to convert their cumulative advance to the appropriate measured quantity.

**Units:** None

**Valid Set:** Any within the constraints of format.

**Validation:** As Valid Set

**Domain:** Real

**Logical Format:** NUM (8,4)

**Physical Length:** 9

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	Data Item created.

**Item Name:** **Outstation Password A Level 1**

**Item Reference:** J0470

**Item Ownership:** MRA

**Item Description:** Password A Level 1 must be populated if the Outstation requires a password for interrogation.

**Units:** None

**Valid Set:** Any within the constraints of format.

**Validation:** As Valid Set

**Domain:** String

**Logical Format:** CHAR (12)

**Physical Length:** 12

**Has Aliases:** 'Outstation Password B Level 2' (J1257)  
'~~Outstation Password C~~' 'Reader Password' (J1258)

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	Data Item changed.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Name changed.</u>

**Item Name:** **Outstation Password B Level 2**

**Item Reference:** J1257

**Item Ownership:** MRA

**Item Description:** For those metering systems that have two passwords, this field may store the second password.  
This is an alias of 'Outstation Password A Level 1' (J0470). See 'Outstation Password A Level 1' (J0470) for data item attributes.

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New Data Item.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Name changed.</u>

**Item Name:** **Previous-Sequence MPAN Core**

**Item Reference:** J1261

**Item Ownership:** MRA

Used where to permit multi-drop (daisy chaining or cascading) of multiple outstations on a single communication line, daisy chained, this is the MPAN Core of a metering system prior to the current metering system in the chain. The Communications Address of all the above outstations is the same ie the address of MPAN1/Outstation 1. The following table demonstrates how the combined Previous-Sequence MPAN Cores and Previous-Sequence Outstation Ids show the daisy chained sequencing of an outstation.

**Item Description:**

MPAN Core/Outstation Id	<u>Previous-Sequence</u> MPAN Core	<u>Previous-Sequence</u> Outstation Id
MPAN 1/Outstation 1	N/A	N/A
MPAN 1/Outstation 2	MPAN 1	Outstation 1
MPAN 2/Outstation 1	MPAN 1	Outstation 2
MPAN 2/Outstation 2	MPAN 2	Outstation 1
MPAN n/Outstation 1	MPAN n-1	Outstation 2
MPAN n/Outstation 2	MPAN n	Outstation 1

This is an alias of 'MPAN Core' (J0003). See 'MPAN Core' (J0003) for data item attributes.

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New data item.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Name changed.</u>

**Item Name:** **Previous-Sequence Outstation Id**

**Item Reference:** J1262

**Item Ownership:** MRA

**Item Description:** Used where to permit multi-drop (daisy chaining or cascading) of multiple outstations on a single communications line. Daisy chained, this is the Outstation Id of a metering system prior to the current Outstation Id in the chain.  
This is an alias of 'Outstation Id' (J0428). See 'Outstation Id' (J0428) for data

item attributes.

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New data item.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Name changed.</u>

**Item Name:** **Event Indicator**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** An indicator to identify the specific event that has caused the flow to be sent.

**Units:** None

**Valid Set:** Values are: -

- A New Connection
- B Addition of Meter
- C Removal of Meter
- D Replacement of Meters
- E Configuration/Password Change
- F Addition of Comms
- G Removal of Comms
- H Replacement of Comms
- I Change of Agent
- J Change of Supplier
- K Coincident Change of Agent and Supplier
- L Request from Agent
- M Request from Supplier
- N Change of Feeder Status
- O Total Replacement of Meter(s)
- P Addition of Meter and Password Change
- Z Other

**Validation:** As Valid Set

**Domain:** String

**Logical Format:** CHAR (1)

**Physical Length:** 1

**Has Synonyms:**

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	Data Item created.

**Item Name:** **Channel Number**

**Item Reference:** J0382

**Item Ownership:** MRA

**Item Description:** The number of a channel within an Outstation to which a meter register is related.

**Units:** None

**Valid Set:** Positive integer within the constraints of the format. Any within the constraints

of the format.

**Validation:** As Valid Set

**Domain:** Integer String

**Logical Format:** INT(3)CHAR(3)

**Physical Length:** 3

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	Data Item changed.
<u>Version *.*</u>	<u>xxxx</u>	<u>Valid Set, Domain and Logical Format changed.</u>

**Item Name:** **Outstation PIN**

**Item Reference:** J0464

**Item Ownership:** MRA

**Item Description:** This parameter is to permit multi-drop (daisy chaining or cascading) of multiple outstations on a single communication line.

**Units:** None

**Valid Set:** Any within the constraints of format.

**Validation:** As Valid Set

**Domain:** String

**Logical Format:** CHAR (312)

**Physical Length:** 312

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	Description changed.
<u>Version *.*</u>	<u>xxxx</u>	<u>Logical Format and Physical Length changed.</u>

**Item Name:** **Dial In/ Dial Out Indicator**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** An indicator that identified whether the Instation or the Outstation initiates the data collection call.

**Units:** None

**Valid Set:** Values are:

I                    Instation

O                    Outstation

**Validation:** As Valid Set

**Domain:** Code

**Logical Format:** CHAR (1)

**Physical Length:** 1

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	New Data Item created.

**Item Name:** **Reader Password Outstation Password C**

**Item Reference:** J1258

**Item Ownership:** MRA

**Item Description:** For those metering systems that have a password for use by the reader. Reader Password is not a 'Level 3 Password'. three passwords, this field may store the third password. This is an alias of 'Outstation Password A-Level 1' (J0470). See 'Outstation Password A-Level 1' (J0470) for data item attributes.

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New data item.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Name changed.</u>

**Item Name:** **Effective from Settlement Date {MSMTD}**

**Item Reference:** J1254

**Item Ownership:** MRA

**Item Description:** The first settlement date on which a metering system is configured according to the initial or subsequently revised Meter Technical Details.

**Units:** None

**Valid Set:** A valid date within the constraints of the format.

**Validation:** As Valid Set

**Domain:** Effective Date

**Logical Format:** DATE

**Physical Length:** 8

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New Data Item.
<u>Version *.*</u>	<u>xxxx</u>	<u>Item Description changed.</u>

**Item Name:** **Modem Type**

**Item Reference:** Jxxxx

**Item Ownership:** MRA

**Item Description:** A textural description of the type of modem installed at the meter.

**Units:** None

**Valid Set:** Any within the constraints of the format.

**Validation:** As Valid Set

**Domain:** Short Description

**Logical Format:** CHAR (200)

**Physical Length:** 200

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version *.*	xxxx	New Data Item.

**Item Name:** **Baud Rate**

**Item Reference:** J1260

**Item Ownership:** MRA

**Item Description:** Describes the remote communications data transfer rate ~~for an~~ configured at the Outstation.

**Units:** None

**Valid Set:** Values are: -

1200

14400

19200

2400

28800

300

33800

4800

57600

9600

**Validation:** As Valid Set

**Domain:** Integer

**Logical Format:** INT (5)

**Physical Length:** 5

**Notes:**

**Version History:**

Catalogue release change takes effect	CR No.	Brief description of the change and its reason
Version 3.2	2314	New Data Item.
Version 4.4	2962	Valid Set description changed.
<u>Version *.*</u>	<u>Xxxx</u>	<u>Item Description changed.</u>

Flow Reference: **D0268**

Flow Version: **001**

Status: Operational

<b>Flow Name:</b>	<b>Half Hourly Meter Technical Details</b>
<b>Flow Description:</b>	Half Hourly Meter Technical Details are transferred when there is a change in equipment, configuration or upon change of Agent.
<b>Flow Ownership:</b>	MRA

From	To	Version
MOP	Distributor	3.2
MOP	Generator (Scotland)	4.0
MOP	HHDC	3.2
MOP	MOP	3.2
MOP	Supplier	3.2

**Data Items:**

Reference	Item Name
<a href="#">J0012</a>	<a href="#">Additional Information</a>
J0476	Associated Meter Id
J0477	Associated Meter Register Id
J1260	Baud Rate
J0382	Channel Number
J0385	Communications Address
J0386	Communications Method
<a href="#">Jxxxx</a>	<a href="#">Complex Site Indicator</a>
J0454	CT Ratio
<a href="#">Jxxxx</a>	<a href="#">Dial In/ Dial Out Indicator</a>
<a href="#">J1269</a>	<a href="#">Date of Meter Removal</a>
<del>J0307</del>	<del>Effective from Settlement Date {MSMC}</del>
J1254	Effective from Settlement Date {MSMTD}
<del>J0080</del>	<del>Energisation Status</del>
<a href="#">Jxxxx</a>	<a href="#">Event Indicator</a>
<a href="#">Jxxxx</a>	<a href="#">Feeder Effective From Date</a>
<a href="#">Jxxxx</a>	<a href="#">Feeder Status</a>
J0410	Manufacturers Make & Type
<del>J0082</del>	<del>Measurement Class Id</del>
<a href="#">Jxxxx</a>	<a href="#">Meter Asset Provider Id</a>
J0103	Measurement Quantity Id
J0418	Meter COP
<a href="#">Jxxxx</a>	<a href="#">Meter COP Issue Number</a>
J0501	Meter Current Rating
J1025	Meter Equipment/Service Location
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0475	Meter Register Multiplier
<a href="#">Jxxxx</a>	<a href="#">Modem Type</a>
J0003	MPAN Core
J0427	Number of Phases
J0478	Number of Register Digits
J0428	Outstation Id
<a href="#">Jxxxx</a>	<a href="#">Outstation Multiplier</a>
J0469	Outstation Number of Channels
J1256	Outstation Number of Dials
J0470	Outstation Password <a href="#">ALevel 1</a>
J1257	Outstation Password <a href="#">BLevel 2</a>
J1258	<del>Outstation Password C Reader Password</del>
J0464	Outstation PIN

Reference	Item Name
J0471	Outstation Type
J1261	<u>Previous-Sequence</u> MPAN Core
J1262	<u>Previous-Sequence</u> Outstation Id
J0432	Pulse Multiplier
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}
					<u>1</u>							<u>Measurement-Class-Id</u>
					<u>1</u>							<u>Effective from Settlement Date {MSMC}</u>
					<u>1</u>							<u>Energisation Status</u>
					1							Meter COP
					0							<u>Meter COP Issue Number</u>
					<u>1</u>							<u>Complex Site Indicator</u>
					0							Meter Equipment/Service Location
					0							<u>VT Ratio</u>
					0							<u>CT Ratio</u>
					1							System Voltage
					1							Number of Phases
					<u>1</u>							<u>Event Indicator</u>
					0							<u>Additional Information</u>
02A	Outstation Details	1-*	<u>If Meter at metering point</u>	G								
						1						Outstation Id
						1						Outstation Type
						0						<u>Modem Type</u>
						1						Outstation Number of Channels
						1						Outstation Number of Dials
						0						Outstation PIN
						0						Outstation Password <u>A Level 1</u>
						0						Outstation Password <u>B Level 2</u>
						0						<u>Outstation Password-C Reader Password</u>
						<u>1</u> 0						Communications Method
						0						<u>Dial In/ Dial Our Indicator</u>
						0						Communications Address
						0						Baud Rate
						0						<u>Previous-Sequence</u> MPAN Core
						0						<u>Previous-Sequence</u> Outstation Id
03A	Meter Details	1-*	<u>If Meter at metering point</u>	G								
						1						Meter Id (Serial Number)
						0						Manufacturers Make & Type
						0						Meter Current Rating
						0						<u>VT Ratio</u>
						0						<u>CT Ratio</u>
						<u>1</u>						<u>Feeder Status</u>
						<u>1</u>						<u>Feeder Status Effective From Date</u>
						<u>1</u>						<u>Meter Asset Provider Id</u>
04A	Meter Register Details	1-*		G								
							1					Meter Register Id
							1					Outstation Id

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
							1					Channel Number
							1					Pulse Multiplier
							1					Meter Register Multiplier
							<u>1</u>					<u>Outstation Multiplier</u>
							1					Measurement Quantity Id
							1					Number of Register Digits
							O					Associated Meter Id
							O					Associated Meter Register Id
<u>***</u>	<u>Meters Removed</u>	<u>O_*</u>			<u>G</u>							
							<u>1</u>					<u>Meter Id (Serial Number)</u>
							<u>1</u>					<u>Date of Meter Removal</u>
							<u>1</u>					<u>MAP Id</u>

<b>Notes:</b>	<p><u>Manufacturers Make &amp; Type optional as Outstation Type is coded.</u>  <u>Meter Current Rating must be provided only for a whole current meter.</u>  <u>CT Ratio must be provided only for CT meters. See Annex C for Flow Notes.</u></p>
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**Version History:**

Catalogue release change takes effect	CP No.	Brief description of the change and its reason
Version 3.2	2314	New flow created.
Version 4.0	2741	Flow occurrence from MOP to Generator (Scotland) added.
<u>Version *_*</u>	<u>xxxx</u>	<u>Various amendments to flow structure.</u>

## ANNEX: C

<b>Flow Reference:</b>	<b>D0268</b>
<b>Flow Name:</b>	<b>Half Hourly Meter Technical Details</b>
<b>Flow Description:</b>	<b>Half Hourly Meter Technical Details are transferred when there is a change in equipment, configuration or upon change of Agent.</b>

### Rules for completion of D0268

1. All data items pertaining to EVERY installed meter defined at the relevant MPAN must be included within Groups 02A and 03A whether or not they have changed. These groups are therefore the definitive statement of the meters at a Metering Point.
2. Groups 02A and 03A must only be absent when ALL meters are removed at a Metering Point and are not replaced.
3. Meters which are removed will be included in Group \*\*\*, and are only sent in response to their removal (i.e. the removal of a meter is only notified ONCE).
4. If there is a discrepancy between Group 03A with any metering history derived from Group \*\*\* then Group 03A takes precedence.
5. Manufacturers Make & Type optional as Outstation Type is coded.
6. Meter Current Rating must be provided only for a whole current meter.
7. CT Ratio must be provided only for CT meters.
8. Meter COP Issue Number is defined within the flow as optional, where the Meter COP is issued with an Issue Number this item shall be populated.
9. The D0268 shall not be used to indicate a change of MAP only.

### Rules for Specific Scenarios and Examples:

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

#### 1. Multiple MPAN Configurations

This section provides guidelines to be applied to metering configurations where single physical metering equipment has multiple MPANs associated with it. In all cases, except in the case of BSCP550 (Shared SVA Metering Systems), it is necessary to create a D0268 flow for each MPAN describing the physical details of the meter, by using either the Measurement Quantity Id (J0103) to define which registers are relevant to the particular MPAN, or via use of a Supplementary Information form for Complex Sites.

#### 2. Complex Site Indicator

BSCP502's definition of a Complex Site is "Any site that requires a Supplementary Information Form to enable the Half Hourly Data Collector to interpret the standing and dynamic metered data relating to a SVA traded sites for Settlement purposes." There are therefore MPANs that the D0268 by itself cannot describe correctly or in sufficient detail to allow the HHDC to submit the correct half hourly data into Settlements. Therefore in such cases the MOP shall set this data item to 'True'.

#### 3. Import; Export; Import & Export

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

For a site that has both Import and Export capability, the Distributor is required to allocate two MPANs: one for export energy and one for import energy. The HH MOP must provide two D0268 data flows: one for the

import MPAN and one for the export MPAN. If the site is metered via a single multi-channel device, the D0268 dataflow must recognise the fact that there is one physical metering system allocated to the two separate MPANs.

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

Reference	Item Name
Jxxxx	Additional Information
J0476	Associated Meter Id
J0477	Associated Meter Register Id
J1260	Baud Rate
J0382	Channel Number
J0385	Communications Address
J0386	Communications Method
J0454	CT Ratio
J1254	Effective from Settlement Date {MSMTD}
Jxxxx	Event Indicator
Jxxxx	Feeder Effective from date
Jxxxx	Feeder Status
J0410	Manufacturers Make & Type
Jxxxx	Meter Asset Provider
J0418	Meter COP
J0501	Meter Current Rating
J1025	Meter Equipment/Service Location
J0004	Meter Id (Serial Number)
J0010	Meter Register Id
J0475	Meter Register Multiplier
Jxxxx	Modem Type
J0427	Number of Phases
J0478	Number of Register Digits
J0428	Outstation Id
Jxxxx	Outstation Multiplier
J0469	Outstation Number of Channels
J1256	Outstation Number of Dials
J0470	Outstation Password Level 1
J1257	Outstation Password Level 2
J0464	Outstation PIN
J0471	Outstation Type
J0432	Pulse Multiplier
J1255	System Voltage
J1258	Reader Password
J0455	VT Ratio

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

The differences in the two flows will be in the Measurement Quantity Id (J0103) of the different register / channels. The import MPAN 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 MPAN will show the AI register / channel as "UN" and the AE register / channel as "AE". The reactive registers / channels will be mapped to the import MPAN as "RE" and "RI", but will be mapped as "UN" on the export MPAN. The resulting D0268s may look something like the following:

**Import MPAN**

```
01A|Mpanxxxxxxxx|19980913|5|2|F|Customer Switchroom|440|3|X||
02A|K99X12345|GP2|ModemType|4|6|001|ABCD1234|ABCD4321||PS||01999123456|1200||
03A|K99X12345|ABB PPM LV ISSUE 2||N/A|400/5|A|19980913|MAPid|
04A|01|K99X12345|1|0.050000|10.00|1|AI|6||
04A|02|K99X12345|2|0.050000|10.00|1|UN|6||
04A|03|K99X12345|3|0.050000|10.00|1|RI|6||
04A|04|K99X12345|4|0.050000|10.00|1|RE|6||
```

**Export MPAN**

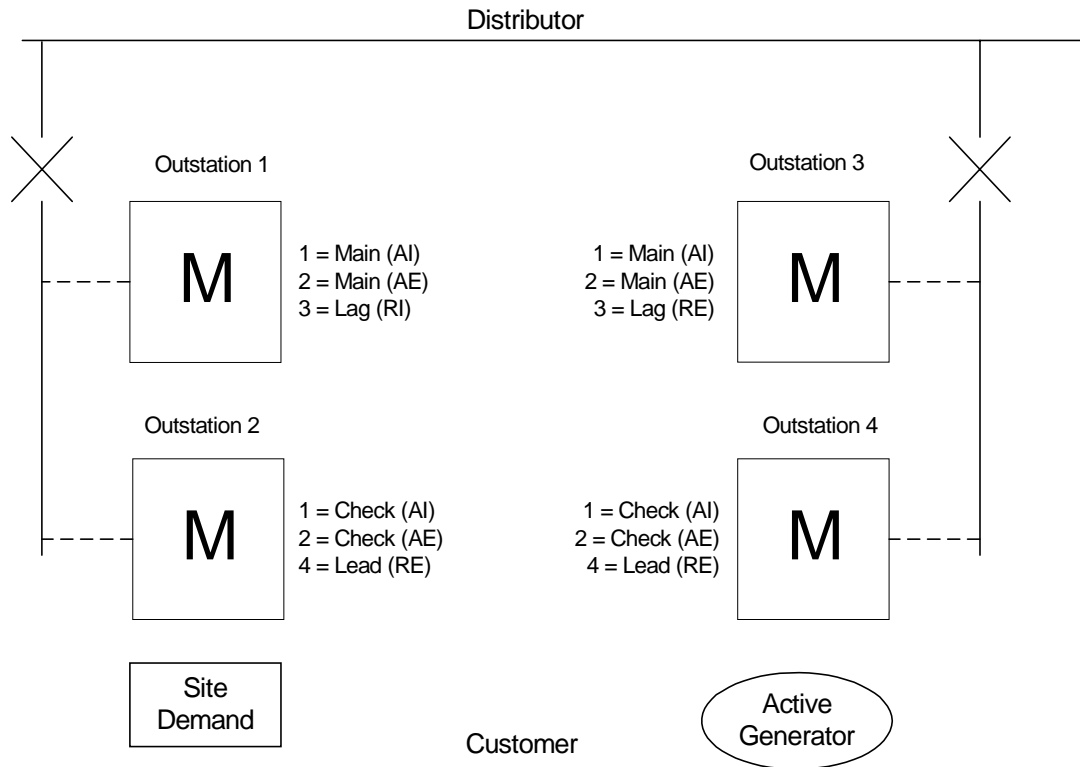
```
01A|Mpanxxxxxxxx|19980913|5|2|F|Customer Switchroom|440|3|X||
02A|K99X12345|GP2|ModemType|4|6|001|ABCD1234|ABCD4321||PS||01999123456|1200||
```

03A|K99X12345|ABB PPM LV ISSUE 2||N/A|400/5|A|19980913|MAPid|  
 04A|01|K99X12345|1|0.050000|10.00|1|UN|6||  
 04A|02|K99X12345|2|0.050000|10.00|1|AE|6||  
 04A|03|K99X12345|3|0.050000|10.00|1|UN|6||  
 04A|04|K99X12345|4|0.050000|10.00|1|UN|6||

4. Net Import / Net Export Sites

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

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

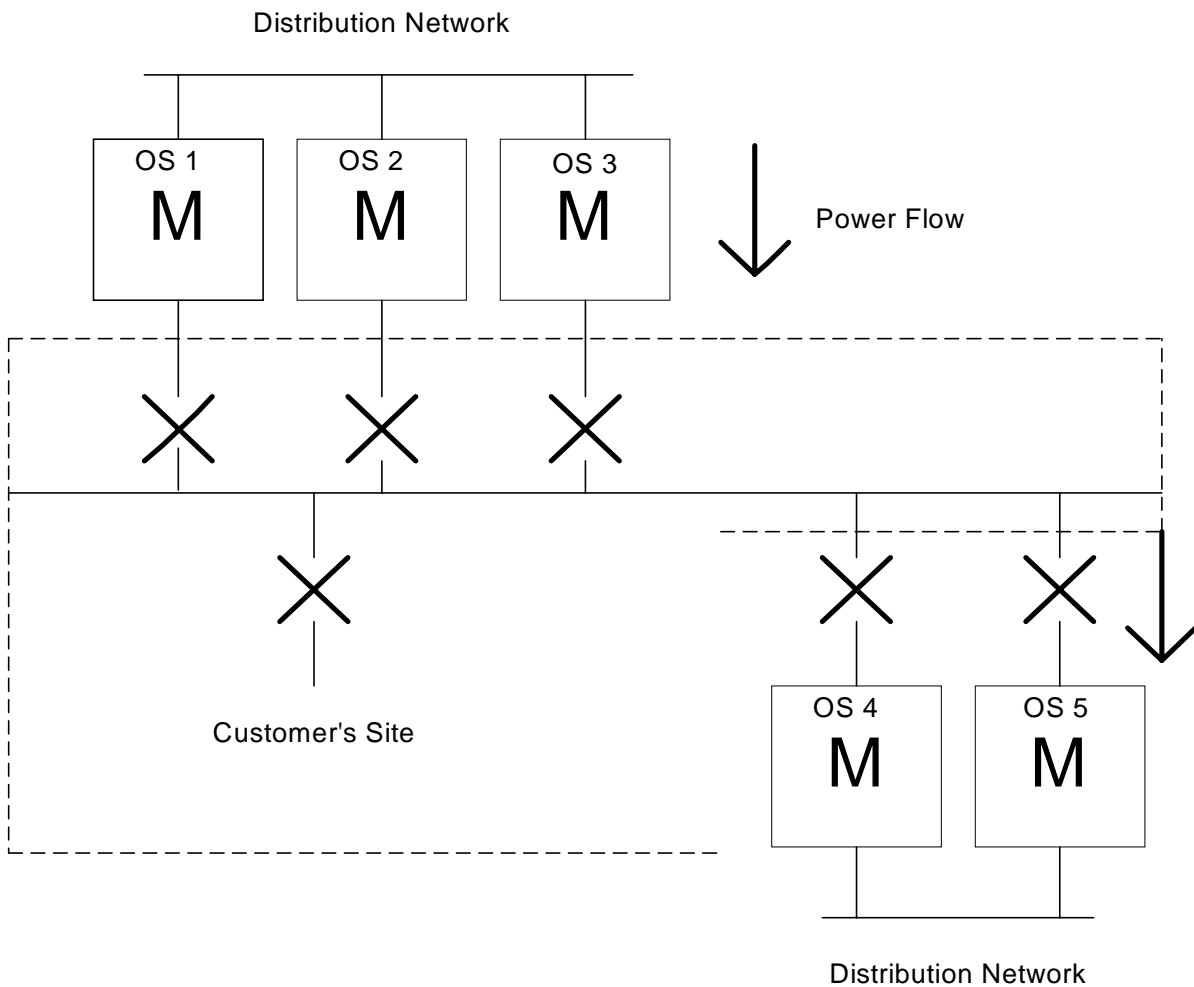


The D0268 for both of these MPANs will be identical (except for the MPAN number). Included in the data item Jxxxx Complex Site Indicator is an indication that the Data Collector requires an additional form from the Meter Operator or Supplier detailing mapping details. The use of Measurement Quantity 'UN' is not appropriate in this example as both import and export channels are to be used in the calculation of the half hourly data to be sent to Settlements. The Supplementary Information forms are sent no later than the sending of the D0268 or preferably in advance of the D0268 flow.

5. Feed Through Sites

Some metering points require to be traded as Net Import or Net Export. The following example has one MPAN (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 D0268 for this site will show all five feeders as having AI (Active Import) or AE (Active Export) channels. The HHDC would only set this up as Active Import less Active Export if a Supplementary Information form were received, which would be indicated by use of the Complex Site Indicator data item (Jxxxx). Otherwise the HHDC 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 that feeders 4 and 5 should be subtracted from the sum of feeders 1, 2 and 3. The forms shall be sent no later than the sending of the D0268 or in advance of the D0268 flow.

The Schematic would appear thus:



## 6. 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 Suppliers. In order to facilitate this, additional MPANs are generated which will be registered by the Secondary Suppliers and the HHDC splits the energy between the Primary and Secondary Suppliers in proportion to their submitted Allocation Schedule. Under Shared SVA Metering Arrangements, both MPANs relate to the same metering equipment with only a single D0268 needed for the Primary Supplier, even though all registers are relevant to both MPANs. There is no D0268 created for any secondary MPANs.

It is worth noting that Shared SVA Metering sites 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 1 MPANs associated with it (MPANs are required to 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 system. The resulting D0268 data flows might look like the following:

### **Primary Export MPAN**

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

02A|K99X12345|GP2|ModemType|4|6|001|ABCD1234|ABCD4321||PS|O|01999123456|1200|||

03A|K99X12345|ABB PPM LV ISSUE 2|N/A|400/5|A|19980913|MAPid|  
04A|01|K99X12345|1|0.050000|10.00|1|UN|6||  
04A|02|K99X12345|2|0.050000|10.00|1|AE|6||  
04A|03|K99X12345|3|0.050000|10.00|1|UN|6||  
04A|04|K99X12345|4|0.050000|10.00|1|UN|6||

## 7. 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 that are associated with that main meter register. 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.

## 8. 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 D0268.

Where an Outstation is configured by the Meter Operator for idle channels to be visible to the Data Collector, then each unassigned channel shall be identified by the Measurement Quantity Id data item as 'UN' (unassigned). Where the Meter Operator has programmed this channel to be visible to the Data Collector, 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 operators take 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 the these channels.

Where an outstation has channels that are not being used, the D0268 flow shall contain details for all the **active** outstation channels. This is so that the details returned when the HHDC dials the outstation match the expected details as held by the HHDC from the D0268.

Thus, in order for the HHDC to successfully dial the outstation, the Outstation Number of Channels data item must accurately reflect the number of 'active' channels seen by the HHDC when dialling to that Communications Address. It is also a requirement that there must be mapping information for every outstation channel. The HH MOP 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 should be set to dummy values. The following data items should be populated as detailed below:

Ref	Item Name	Notes
J0382	Channel Number	Must be an entry for every channel as identified in J0469 (ie every active channel should have an entry in the 04A group in the flow)
J0103	Measurement Quantity Id	Set to "UN" for any unused channels
J0004	Meter Id (Serial Number)	Use a dummy value to allow all unused channels to be mapped (eg "DUMMY")
J0010	Meter Register Id	Set to dummy values for each unused channel (eg "U1", "U2",... "UA", "UB" etc)
J0475	Meter Register Multiplier	Set to dummy values for each unused channel (eg "0.00")
J0478	Number of Register Digits	Use a dummy value for each unused channel (eg. "0")
J0428	Outstation Id	Must be populated
J0469	Outstation Number of Channels	Must be populated with the number of active channels on the outstation visible to the DC
Jxxxx	Outstation Multiplier	Set to zero for each unused channel (ie "0.000000")
J0432	Pulse Multiplier	Set to zero for each unused channel (ie "0.000000") to remove the possibility of readings being passed on by the HHDC

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

9. Use of Passwords - Outstation Password Level 2 J1257

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

10. Meter Asset Provider ID (MAP) Jxxxx

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

11. Outstation Multiplier Jxxxx

The Outstation Multiplier (Jxxxx) shall be populated as shown

Vision meters = 1

Other meter/combined outstations = J0475 (Meter Register Multiplier)

For separate outstations, the Outstation Multiplier will equal the constant required to give the correct outstation cumulative advance when polled by a Data Collector.

12. Event Indicator Jxxxx

This data item with its' range of valid set options, will allow the MO to advise the recipient the reason behind the D0268 data flow 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 D0268. Upon a meter removal/ exchange without a change to the Energisation Status of the MPAN, then the D0139 shall not be sent with the D0268. Below is clarification on the meaning of each Event Indicator code.

Code	Event	Further information
A	New connection	Used for first D268 for this metering point
B	Addition of Meter(s)	Used for the addition of one or more meters to an existing metering point.
C	Removal of Meter(s)	Used for the removal of one or more meters from an existing metering point.
D	Replacement of Meters	Used to indicate replacement with the same number of meters EG removal of one meter for replacement with another.
E	Configuration/Password Change	Used to indicate either a configuration and/or password change, i.e. Any changes that impact on the configuration of the metering point and to indicate that the previous D0268 contained an error.
F	Addition of Comms	
G	Removal of Comms	
H	Replacement of Comms	
I	Change of Agent	
J	Change of Supplier	
K	Both COA and COS	
L	Request from Agent	
M	Request from Supplier	
N	Change of Feeder Status	Used to indicate an energisation change at meter level EG energised to de-energised and visa-versa.
O	Total Replacement of Meter(s)	Used to indicate complete renewal of the metering point where the number of installed meters does not equal the number of removed meters.
P	Addition of Meter and Password Change	
Z	Other	Used for multiple events and any events not captured above

13. Additional Information J0012

For use of population along with data item Event Indicator (Jxxxx), 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 D0268 submission.

14. Communications Method 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.

15. Additional Data Item Notes

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

Ref	Item Name	Notes
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
J0382	Channel Number	This shall be populated to reflect the physical set-up of the outstation. Notice should be taken of section 8 for any unused channels (All leading zero's shall be included)
J0103	Measurement Quantity Id	Where the Measurement Quantity is not relevant to that MPAN (Import and Export), then this shall be populated as 'Unassigned'. Active Energy Measurement Quantity shall only be associated to Export MPANs with all channels being 'Unassigned'.
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
J0004	Meter Id (Serial Number)	As per DTC except when section 8 applies
J0010	Meter Register Id	As per DTC except when section 8 applies. Register channels 1, 2, etc should be padded with a leading zero to ensure that this field is always 2 characters in length
J0475	Meter Register Multiplier	As per DTC except when section 8 applies.
J0478	Number of Register Digits	For a metering system that has an integral outstation, J0478 shall be the same as J1256 (Outstation Number of Dials). Otherwise, these items may be different
J0428	Outstation Id	As per DTC. 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 should be included
J0464	Outstation PIN	As per DTC, except when Comms Method is LAN for PRI meters as this is a way of achieving multi-dropping
J0469	Outstation Number of Channels	Shall always reflect the number of active channels on the outstation that are visible to the DC
J0432	Pulse Multiplier	As per DTC except when section 8 applies.

**Version History:**

Catalogue release change takes effect	CP No.	Brief description of the change and its reason
Version *.*	****	Rules Created

## Annex: A

### Group Condition

- A22 If the condition for the group *instance* is specified, the group should *not* be sent if the condition is *false*. Note that if the condition is true, the group might not be sent if its range implies it is optional (see above). The data item that determines the condition should be found in a group of which the conditional group is a descendant, or should be a value known to the recipient.

### Data Item Section of the DTC

- A23 This section of the catalogue identifies the data items used to hold the detail of the flows. It is limited to only those data items listed in the data items section of the data flows, as well as special cases, such as Scottish Data Items outlined in A25-A26 below (which are aliases), synonyms, and those items in the flow header.
- A24 In this catalogue, a Data Item **synonym** is an item that differs from its parent (the item it is a synonym of) *only in name*. Any data items that are similar in form but different in description (such as GSP & BSP Group Ids, and From and To Market Participant Ids) are known as **aliases**.
- A25 Scottish differences in terminology relating to the use of GSP & BSP, ISR & IAR, SSR & SAR, SSA (SAA) & SDP, and references to the BSC and Scottish Settlements will not be explicitly stated within each flow and data item.
- A26 However, it can be assumed that wherever GSP is referenced throughout the Catalogue, then BSP is also implied, likewise for ISR and IAR, SSR and SAR, SSA (SAA) and SDP and for the BSC and Scottish Settlements. GMSID is the identifier for a Generator Meter and BSPID is the identifier for a Bulk Supply Point Meter. In Scotland both GMSID and BSPID will be used as aliases of MPAN (Core) when reading these types of meter, GMSID will be used by Generator (Scotland), MOP, HHDC, SDP/GRS (Scottish Companies) and BSPID will only be used by Scottish Companies.
- A27 Flows “From” or “To” the IAR Agent in Scotland will continue to be shown in addition to the equivalent “From” or “To” the ISR Agent in England & Wales as not all IARA flows have an equivalent ISRA flow.
- A28 The use of the underscore character ‘\_’ is limited to Data Item J0066 GSP Group Id, J1628 BM Unit Id, J0385 Communications Address ~~and~~\_, J0776 Line Loss Factor Class Description and J0428 Outstation Id.