



# Option A DTC Strawman

## DSR Metering Option A – DTC Strawman

Option A for DSR metering proposes that MPAN-level consumption information is provided to the EMR Settlement Agent by Supplier-appointed HHDA. The information would be submitted as a formal data flow using the Data Transfer Network maintained under the MRA.

The process steps would be as follows:

1. Supplier notifies HHDA of MPANs for which data should be reported
2. HHDA processes instruction and accepts or rejects back to the Supplier
3. If rejected, Supplier corrects and re-sends data as required
4. If accepted HHDA flags those MPANs in its systems and sends consumption data to the EMR Settlement Agent as part of the scheduled data aggregation process

This basic process requires four DTN data flows:

- Instruction from Supplier to HHDA to flag relevant MPANs
- Confirmation of acceptance from HHDA to Supplier
- Rejection from HHDA to Supplier
- MPAN-level consumption data from HHDA to EMR Settlement Agent.

The concept of identifying MPANs as being used for DSR purposes is somewhat similar to the existing process for allocating HH MPANs to Additional BM Units. Therefore we suggest that we establish a set of instruction, confirmation and rejection flows similar to the D0297, D0294 and D0295 flows used in the BM Unit allocation process.

We have included the use of File Sequence Numbers and Instruction Numbers in the request, confirmation and rejection flows as these align with current process. However, Suppliers and HHDA should advise on whether these details needed and they could be removed so as to keep the flows as simple as possible.

The consumption flow is structured in a similar way to the D0298 flow sent between HHDA and the SVAA, but focused at the MPAN level. For future flexibility it would be useful for the EMR Settlement Agent to be able to identify consumption and losses separately, and also to confirm whether the consumption comprises Active Import or Active Export. We suggest that the Measurement Quantity is used to confirm the AI/AE status of each MPAN, and then establish separate fields for reporting the consumption and loss values for each Settlement Period.

In the following pages, new data items are highlighted in yellow.

# Option A DTC Strawman

## Flow from Supplier to HHDA notifying of DSR MPANs:

<b>Flow Name:</b>	<b>DSR Reporting Notification</b>	
<b>Flow Description:</b>	Supplier notification to HHDA of Metering Systems to be reported in relation to Demand Side Response. To be used for both initial notification and for updates.	
<b>Flow Ownership:</b>	MRA	
<b>From</b>	<b>To</b>	<b>Version</b>
Supplier	HHDA	x.x

### Data Items:

Reference	Item Name
xxxx	Effective from Settlement Date {MSDSR}
xxxx	Effective to Settlement Date {MSDSR}
J0330	File Sequence Number
J0109	Instruction Number
J0003	MPAN Core

### Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
xxx	File Sequence Number	1		G								
					1							File Sequence Number
xxx	DSR reporting notifications	1-*		G								
						1						Instruction Number
						1						MPAN Core
						1						Effective from Settlement Date {MSDSR}
						0						Effective to Settlement Date {MSDSR}

# Option A DTC Strawman

## Flow from HHDA to Supplier confirming acceptance of DSR MPAN allocation:

<b>Flow Name:</b>	<b>DSR Reporting Confirmation</b>	
<b>Flow Description:</b>	Used to notify a Supplier that their DSR Reporting Notification has been accepted, including verification of the notification.	
<b>Flow Ownership:</b>	BSC	
<b>From</b>	<b>To</b>	<b>Version</b>
HHDA	Supplier	x.x

### Data Items:

Reference	Item Name
xxxx	Effective from Settlement Date {MSDSR}
xxxx	Effective to Settlement Date {MSDSR}
J0330	File Sequence Number
J1017	Incoming Instruction Number
J0003	MPAN Core

### Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
xxx	File Sequence Number	1		G								
					1							File Sequence Number
xxx	Confirmed DSR reporting notifications	1-*			G							
						1						Incoming Instruction Number
						1						MPAN Core
						1						Effective from Settlement Date {MSDSR}
						0						Effective to Settlement Date {MSDSR}

# Option A DTC Strawman

## Flow from HHDA to Supplier rejecting DSR MPAN allocation with reasons:

<b>Flow Name:</b>	<b>DSR Reporting Rejection</b>	
<b>Flow Description:</b>	Notification to the Supplier that the DSR Reporting Notification has been rejected, giving the reason for rejection.	
<b>Flow Ownership:</b>	MRA	
<b>From</b>	<b>To</b>	<b>Version</b>
HHDA	Supplier	x.x

### Data Items:

Reference	Item Name
xxxx	DSR Reporting Rejection Reason Code
xxxx	Effective from Settlement Date {MSDSR}
xxxx	Effective to Settlement Date {MSDSR}
J0330	File Sequence Number
J1017	Incoming Instruction Number
J0003	MPAN Core

### Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
xxx	File Sequence Number	1		G								
					1							File Sequence Number
xxx	Rejected DSR reporting notifications	1-*			G							
						O						Incoming Instruction Number
						O						MPAN Core
						O						Effective from Settlement Date {MSDSR}
						O						Effective to Settlement Date {MSDSR}
						1						DSR Reporting Rejection Reason Code

# Option A DTC Strawman

## Flow from HHDA to EMR Settlement Agent with MPAN-level consumption data:

<b>Flow Name:</b>	<b>Half Hourly Consumption for Demand Side Response</b>	
<b>Flow Description:</b>	Half Hourly consumption values for use by the EMR Settlement in measuring Demand Side Response	
<b>Flow Ownership:</b>	BSC	
<b>From</b>	<b>To</b>	<b>Version</b>
HHDA	EMR Settlement Agent	x.x

### Data Items:

Reference	Item Name
xxxx	Effective from Settlement Date {MSDSR}
J1104	GSP Group
J0103	Measurement Quantity Id
J0003	MPAN Core
J1087	Run Number
J1086	Run Type Code
xxxx	Period DSR Consumption
xxxx	Period DSR Line Loss
J0146	Settlement Code
J0073	Settlement Date
J0074	Settlement Period Id
J0084	Supplier Id

### Flow Structure:

Group	Group Description	Range	Condition	L1	L2	L3	L4	L5	L6	L7	L8	Item Name
ZPD	Data File Additional Header	1		G								
					1							Settlement Date
					1							Settlement Code
					1							Run Type Code
					1							Run Number
					1							GSP Group
SUP	Supplier	1-*		G								
					1							Supplier Id
x	DSR MPAN Cores	1-*		G								
						1						MPAN Core
						1						Measurement Quantity Id
						1						Effective from Settlement Date {MSDSR}
xxx	Settlement Period DSR Energy	1					G					
							1					Settlement Period Id
							1					Period DSR Consumption
							1					Period DSR Line Loss



# Option A DTC Strawman

## New supporting data items:

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

**Item Reference:** xxxx

**Item Ownership:** BSC

**Item Description:** The first inclusive settlement date that an MPAN is reported for Demand Side Response.

**Units:** None

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

**Validation:** As Valid Set

**Domain:** Effective Date

**Logical Format:** DATE

**Physical Length:** 8

**Item Name:** **Effective to Settlement Date {MSDSR}**

**Item Reference:** xxxx

**Item Ownership:** BSC

**Item Description:** The last inclusive settlement date that an MPAN is reported for Demand Side Response.

**Units:** None

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

**Validation:** As Valid Set

**Domain:** Effective Date

**Logical Format:** DATE

**Physical Length:** 8

**Item Name:** **DSR Reporting Rejection Reason Code**

**Item Reference:** xxxx

**Item Ownership:** BSC

**Item Description:** A code which defines why the DSR Reporting Notification has rejected.

**Units:** None

**Valid Set:** Values are:

- 01 Missing/Invalid File Sequence Number
- 02 Missing/Invalid Instruction Number - not in sequence
- 03 Supplier not registered to the metering point as at EFSD {MSDSR}
- 04 Missing/Invalid MPAN core
- 05 HHDA not registered to the metering point as at EFSD {MSDSR}
- 06 Invalid EFD - allocation received after Gate Closure for the first Settlement Period of EFSD {MSDSR}



# Option A DTC Strawman

07 Invalid notification - notification is already effective for this metering point

**Validation:** As Valid Set

**Domain:** Code

**Logical Format:** CHAR(2)

**Physical Length:** 2

**Notes:**

**Item Name:** **Period DSR Consumption**

**Item Reference:** xxxx

**Item Ownership:** BSC

**Item Description:** The Half Hour consumption (or generation) for a Half Hourly Metering System used for Demand Side Response.

**Units:** kWh

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

**Validation:** As Valid Set

**Domain:** Consumer Energy

**Logical Format:** ±NUM(7,1)

**Physical Length:** 9

**Item Name:** **Period DSR Line Loss**

**Item Reference:** xxxx

**Item Ownership:** BSC

**Item Description:** The Half Hour Line Loss for a Half Hourly Metering System used for Demand Side Response.

**Units:** kWh

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

**Validation:** As Valid Set

**Domain:** Consumer Energy

**Logical Format:** ±NUM(7,1)

**Physical Length:** 9