Population of Advanced MTDs (D0268) for Traditional Meters Trading in the Advanced Market Segment

Version 1.0

8 October 2026

Change History

Version Number	Date Published	Reason for Change / Updates Made
V1.0	08 October 2026	Initial version

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1. INTRODUCTION

This guidance document details how the D0268 'Advanced Meter Technical Details' should be populated where a Metering Point is migrating from the legacy Non-Half Hourly (NHH) market arrangements (Measurement Class A) to the Advanced Market Segment as part of Market-wide Half Hourly Settlement (MHHS) Migration.

The guidance covers the following scenarios:

1. Advanced NHH Metering Point migrating to Advanced Market Segment

2. Traditional Current Transformer (CT) NHH Metering Point migrating to Advanced Market Segment

2. BACKGROUND

Where a Metering Point migrates from legacy Measurement Class A arrangements into Advanced arrangements under MHHS, the gaining Meter Operator Agent (MOA) will be required to transform the existing Meter Technical Details (MTDs) held in:

- the D0149 – 'Notification of Mapping Details'
- D0150 – 'Traditional Meter Technical Details' Market Messages
- D0313 – 'Auxiliary Meter Technical Details' flows into the D0268 – Advanced Meter Technical Details structure.

This transformation is necessary because, under current market arrangements, Advanced Non-Half Hourly meters are represented using the D0149/D0150/D0313 data set, whereas under the MHHS target operating model all Advanced meters will be represented using the D0268 format, ensuring a single, consistent technical data structure across the Advanced Market Segment.

The expectation is that the gaining MOA will perform a data transformation exercise only. The existing MSMTD Effective from Date would ordinarily be retained and unless any meter configuration was required would not normally be amended as part of the migration.

As Time of Use register structures are not utilised within the Advanced Market Segment, any register-specific data currently represented in the D0149/D0150 flows would not be recreated in the target Advanced arrangements. Instead, the D0268 produced by the gaining MOA would reflect the Advanced market requirements applicable following migration. For the small number of Traditional meters operating in the Advanced Market Segment, these will be treated as a single register meter while operating in the Advanced Market Segment.

Therefore, the conversion of D0149/D0150/D0313 data into a D0268 should be regarded as the final step of the MHHS Migration process for these Metering Points, enabling them to be managed entirely under the Advanced metering model without requiring further technical configuration changes.

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3. ADVANCED NHH MOVING TO ADVANCED

At the point of MHHS Migration, Meter Technical Details currently held within the NHH market arrangements must be translated into the D0268 format. To facilitate this process, the MOA is expected to have fulfilled its existing REC obligations by maintaining a complete and valid set of NHH MTD flows (D0149, D0150 and, where applicable, D0313).

The tables below set out the D0268 Data Items that must be populated for migrated Metering Points and identify the corresponding source Data Items from the D0149, D0150 and D0313 flows. This mapping is intended to support a consistent and accurate conversion of NHH MTDs into the D0268 format for MHHS Migration.

D0268 – 01 MPAN Cores

J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item / Comment
J0003	MPAN Core	Yes	D0150 / D0313	J0003 MPAN Core
J1254	Effective from Settlement Date [MSMTD]	Yes	D0150 / D0313	J1254 Effective from Settlement Date [MSMTD]
J0418	Meter COP	Yes	D0313	J0418 Meter COP
J1686	Meter COP Issue Number		D0313	J1686 Meter COP Issue Number
J1687	Complex Site Indicator	Yes		Will always be F
J1025	Meter Equipment /Service Location		D0150	J0419 Meter Location
J1255	System Voltage	Yes		Single Phase – 240 3 Phase - 415
J0427	Number of Phases	Yes		Based on Meter
J1689	Event Indicator	Yes		Transactional
J0012	Additional Information			

D0268 – 02A Outstation Details

J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item
J0428	Outstation Id	Yes	D0313	J0428 Outstation Id
J0471	Outstation Type	Yes	D0313	J0471 Outstation Type
J1691	Modem Type			
J0469	Outstation Number of Channels	Yes	D0313	J0469 Outstation Number of Channels

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J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item
J1256	Outstation Number of Dials	Yes	D0313	J1256 Outstation Number of Dials
J0464	Outstation PIN		D0313	J0464 Outstation PIN
J1714	Outstation Username Level 1		D0313	J1714 Outstation Username Level 1
J0470	Outstation Password Level 1		D0313	J0470 Outstation Password Level 1
J1715	Outstation Username Level 2		D0313	J1715 Outstation Username Level 2
J1257	Outstation Password Level 2		D0313	J1257 Outstation Password Level 2
J1716	Outstation Username Level 3		D0313	J1716 Outstation Username Level 3
J1713	Outstation Password Level 3		D0313	J1713 Outstation Password Level 3
J1258	Reader Password			
J0386	Communications Method	Yes	D0313	J0386 Communications Method
J2264	Communications Method B			
J1690	Dial In/ Dial Out Indicator			
J0385	Communications Address		D0313	J0385 Communications Address
J2263	Communications Address B			
J1260	Baud Rate		D0313	J1260 Baud Rate
J1709	Communications Provider		D0313	J1709 Communications Provider
J2265	SIM Serial Number			
J1261	Sequence MPAN Core			
J1262	Sequence Outstation Id			

D0268 – 03A Meter Details

J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item
J0004	Meter Id (Serial Number)	Yes	D0150	J0004 Meter Id (Serial Number)
J0410	Manufacturers Make & Type	Yes	D0150	J0410 Manufacturers Make & Type

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J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item
J0848	Date of Meter Installation	Yes	D0150	J0848 Date of Meter Installation
J0501	Meter Current Rating		D0150	J0501 Meter Current Rating
J0455	VT Ratio		D0150	J0455 VT Ratio
J0454	CT Ratio		D0150	J0454 CT Ratio
J2266	Phase/wire			Populate if known
J1684	Feeder Status	Yes		Based on energisation status
J1685	Feeder Status Effective from Date	Yes		Based on energisation EFD
J1677	Meter Asset Provider Id	Yes	D0150	J1677 Meter Asset Provider Id

D0268 – 04A Meter Register Details

J Number	Data Item Name	Mandatory	Source	
			D Flow	Data Item
J0010	Meter Register Id	Yes	D0150	J0010 Meter Register Id
J0428	Outstation Id	Yes	D0313	J0428 Outstation Id
J0382	Channel Number	Yes	D0313	J0382 Channel Number
J0432	Pulse Multiplier	Yes	D0313	J0342 Pulse Multipler
J0475	Meter Register Multiplier	Yes	D0150	J0475 Meter Register Multiplier
J1688	Outstation Multiplier	Yes	D0313	Outstation Multipler
J0103	Measurement Quantity Id	Yes	D0150	J0103 Measurement Quantity Id
J0478	Number of Register Digits	Yes	D0150	J0478 Number of Register Digits
J0476	Associated Meter Id		D0150	J0476 Associated Meter Id
J0477	Associated Meter Register Id		D0150	J0477 Associated Meter Register Id

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4. TRADITIONAL CURRENT TRANSFORMER NON-HALF HOURLY MOVING TO ADVANCED

This section provides guidance on how an Advanced MOA should populate the D0268 where a Traditional Meter is operating in the Advanced Market Segment.

Following the approval of BSC CP1628 – Enabling Traditional Meters at CT Connections to be operated in the Advanced Market Segment, it has been clarified that the small number of Traditional Meters attached to a CT connection should be operated in the Advanced Market Segment until such time that they are upgraded to an Advanced Meter as per the relevant Supplier Licence condition.

The MTDs for Traditional Meters are normally sent via the following Market Messages:

- D0149 – Notification of Mapping Details
- D0150 – Traditional Meter Technical Details Market Messages

However, the D0149 and D0150 Market Messages are not available for an Advanced MOA to send.

Most Data Items required to be communicated for Traditional Meters are available in the D0268, apart from the individual register mapping. The data fields should be populated in line with the instructions in the tables for each group below.

Note: As the D0268 doesn't capture register level information, these meters will be classed as a single rate meter with a single AI register for the purpose of communicating MTDs.

Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
01A	MPAN Core	Yes	Yes		D0150	J0003 MPAN Core
	Effective from Settlement Date (MSMTD)	Yes	Yes		D0150	J1254 Effective from Settlement Date [MSMTD]
	Meter COP	Yes	Yes	Use 8 for Import, 9 for Export		
	Meter COP Issue Number	Conditional	No			
	Complex Site Indicator	Yes	Yes	Always False		Will always be F
	Meter Equipment / Service Location	Conditional	Optional	Populate if additional information is available	D0150	J0419 Meter Location
01A	System Voltage	Yes	Yes	240 for Single Phase, 415 for 3 Phase. If HV use primary		

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Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
				voltage from VT ratio.		
	Number of Phases	Yes	Yes	As per Meter.		Based on Meter
	Event Indicator	Yes	Yes	Use code to indicate reason for update		Transactional
	Additional Information	Conditional	Conditional	To be populated if Event Indicator is X		

Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
02A	Outstation ID	Yes	Yes	Populate with Meter Serial No, if not available		
	Outstation Type	Yes	Yes	Populate as per BSCP601 CoP Compliance and Protocol List		
	Modem Type	No	No			
	Outstation Number of Channels	Yes	Yes	Use 1 if not available		
	Outstation Number of Dials	Yes	Yes	Use 6 if not available		
	Outstation Pin	No	No			
	Outstation Username Level 1	No	No			
	Outstation Password Level 1	No	No			
	Outstation Username Level 2	No	No			
	Outstation Password Level 2	No	No			
	Outstation Username Level 3	No	No			
	Outstation Password Level 3	No	No			
	Reader Password	No	No			

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Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
	Communications Method	Yes	Yes	Use 'HP'		
	Communications Method B	No	No			
	Dial In / Dial Out Indicator	No	No			
02A	Communications Address	No	No			
	Communications Address B	No	No			
	Baud Rate	No	No			
	Communications Provider	No	No			
	SIM Serial Number	No	No			
	Sequence MPAN Core	No	No			
	Sequence Outstation ID	No	No			

Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
03A	Meter ID	Yes	Yes		D0150	J0004 Meter Id (Serial Number)
	Manufacturers Make and Type	No	Yes	Populate if known	D0150	J0410 Manufacturers Make & Type
	Date of Meter Installation	Yes	Yes		D0150	J0848 Date of Meter Installation
	Meter Current Rating	No	No	Only populated for WC Meters	D0150	J0501 Meter Current Rating
	VT Ratio	No	Yes	Populate if known	D0150	J0455 VT Ratio
	CT Ratio	Conditional	Yes	Populated for CT Meters	D0150	J0454 CT Ratio
	Phase / Wire	No	No			
	Feeder Status	Yes	Yes	Use A if Energised, I if not		
	Feeder Status Effective from Date	Yes	Yes	Map to Energisation Status date		
	Meter Asset Provider ID	Yes	Yes		D0150	J1677 Meter Asset Provider Id

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Group	Data Item	Mandatory?	Population	Comment	Source	
					D Flow	Data Item
04A	Meter Register ID	Yes	Yes	Only populate one register to be classed as a cumulative register	D0150	J0010 Meter Register Id
	Outstation ID	Yes	Yes	Populate with Meter Serial Id if not known		
	Channel Number	Yes	Yes	Populate with 001		
	Pulse Multiplier	Yes	Yes	Populate if known, if unknown use 1.		
	Meter Register Multiplier	Yes	Yes		D0150	J0475 Meter Register Multiplier
	Outstation Multiplier	Yes	Yes	Match to Meter Register Multiplier		
	Measurement Quantity ID	Yes	Yes	Use the Value 'AI' for Import and AE for Export		
	Number of Register Digits	Yes	Yes		D0150	J0478 Number of Register Digits
	Associated Meter ID	No	No			
	Associated Meter Register ID	No	No			

Group	Data Item	Mandatory?	Population	Comment
81C	Meter ID	Conditional	If required	Group 81C is only used if Meters are being removed.
	Data of Meter Removal	Conditional	If required	Group 81C is only used if Meters are being removed.
	Meter Asset Approval ID	Conditional	If required	Group 81C is only used if Meters are being removed.

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5. APPENDIX 1 – USEFUL TERMS

Term	Acronym	What does it mean?
Advanced Market Segment		The Advanced Market Segment is the Market Segment where Settlement Level Period data is collected for Settlement purposes from Advanced Meters.
Current Transformer	CT	means a transformer that is used to reduce or multiply an alternating current.
D0149 – Notification of Mapping Details	D0149	This flow notifies mapping of physical registers to time pattern regimes. The Register Mapping Coefficient is required for mapping the difference between 2 or more physical registers' readings to a Settlement Register.
D0150 – Traditional Meter Technical Details	D0150	Meter Technical Details for Traditional Metering Assets. Used for all Non-Half Hourly meters for Non-MHHS Metering Points or Traditional Metering Assets for MHHS Metering Points.
D0268 – Advanced Meter Technical Details	D0268	Advanced Meter Technical Details are transferred when there is a change in equipment, configuration or upon change of Agent.
D0313 – Auxiliary Meter Technical Details	D0313	Communications and security information to accompany NHH Meter Technical Details for AMR Meter Types.
Market Messages	MM	means a structured communication sent between two Market Participants in the form and with the content required (and as otherwise specified) by the Data Specification.
Meter Operator Agent	MOA	means a Party which has Qualified in that role under the Qualification and Maintenance Schedule. Where used in respect of a particular Metering Point, it means the MOA Appointed by an Electricity Supplier in accordance with

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Term	Acronym	What does it mean?
		the Metering Operations Schedule. The MOA is accountable for the installation, replacement, repair and maintenance of electricity Metering Equipment (either itself or by an EMO), and the MOA must also therefore be Accredited under the Metering Accreditation Schedule.
Meter Technical Details	MTDs	means all the relevant information about Energy meters required by the Registered Energy Supplier, Supplier Agents, Distribution Network Operator and/or Gas Transporter to carry out its duties as such under this Code and other Energy Codes.
Metering Point		has the meaning given to it in the Electricity Distribution Licence, which for the time being means: “the point, determined according to the principles and guidance given in the MRA Transition Schedule to the Retail Energy Code, at which a supply of electricity taken into or conveyed from the licensee’s Distribution System: (a) is or is intended to be measured; or (b) where Metering Equipment has been removed, was or was intended to be measured; or (c) in the case of an Unmetered Supply, is treated as measured.”
Traditional Metering Asset		means an electricity Metering Asset of a Meter Type which belongs to the Traditional Meter Group within Industry Standing Data.

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