



Notification of Commissioning Status

This document seeks to provide guidance to all parties involved in the process of Commissioning Metering Equipment following implementation of BSC Change Proposals (CP) 1496¹, 1497² and subsequent new data flows that are required as a result.

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¹ Introduction of two data flows for the Commissioning process for Half Hourly (HH) Supplier Volume Allocation (SVA) Current Transformer (CT) operated Metering Systems. Implemented 1 November 2018.

² Formal title: Introduction of data flows for Half Hourly Meter Operator Agents to pass on Commissioning information when there is a Change of Agent. Implemented 1 November 2018.

Summary

This document explores and details the different scenarios in which Commissioning is required and provides guidance on the population of the D0383³ and the D0384 dataflows⁴.

As this document is concerned with the process of recording and transferring Commissioning information via dataflow, it does not seek to provide guidance on the technical aspects of Commissioning Metering Equipment. Furthermore, the document assumes a basic level of understanding in relation to the Commissioning process as defined within Code of Practice (CoP) 4⁵.

The following guidance notes⁵ provide detailed assistance on the wider Commissioning processes as defined within CoP 4:

- CoP4 Commissioning of measurement transformers for Settlement purposes; and
- CoP4 guidance

Introduction

Following the implementation of [CP1496](#) a Commissioning agent is required to transfer the Commissioning status of a Metering System; and the Metering Equipment comprised within the Metering System; via dataflows over the Data Transfer Network (DTN).

These dataflows are the D0383 and the D0384.

Following the implementation of [CP1497](#), a Meter Operator Agent (MOA) is required to transfer Commissioning information via a combination of the D0383 and D0384 where a Change of Agent (COA) occurs.

The population of the D0383 and D0384 will differ depending on the reason for which they are sent. This document provides guidance on the population of the D0383 and D0384 in each process for which they may be used.

The guidance provided within this document assumes that the measurement transformers (current transformers and voltage transformers) comprised within the Metering System are owned by the LDSO. Where the measurement transformers are owned by a non-BSC Party, [CoP4](#) (Section 5.5) states:

Where measurement transformers are not owned by a BSC Party the Registrant, via its appointed MOA, shall be responsible for the Commissioning of all Metering Equipment.

³ Notification of Commissioning Information

⁴ Notification of Commissioning Status

⁵ [Codes of Practice](#) and associated [Guidance documents](#)

Where this is the case, the Registrant, via its appointed MOA, is responsible for Commissioning each item of Metering Equipment comprised within the Metering System. In the event that measurement transformers are owned by a non-BSC Party, the actions detailed within this document for which the Licensed Distribution System Operator (LDSO) is responsible shall be carried out by the MOA.

D0383 - "Notification of Commissioning Equipment"

Detailed below is the structure and content of the D0383. Where a data item has a "1" recorded against it, this means that the data item is mandatory and must be populated to allow the transfer of the data.

A "0" against the data item signifies that the data item is optional.

Where "1-*" is recorded against a data group, this denotes that the data group is repeatable.

95L	MPAN Cores	1-*		G																MPAN Core
					1															Number of Feeders
96L	Feeder Information	1-*		G																
						1														Feeder ID
						1														Feeder Status
						1														Measurement Transformers 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-*			G																If CT Commissioning Information Available =T
						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 CTs VA
						O															Overall Burden on CTs VA

98L	VT Details	1-*				G									If VT Commissioning Information Available = T
							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 VTs VA
							O								Overall Burden on VTs VA

99L	Meter Details	0-*				G									If Meter Commissioning Information Available = T
							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 Meters

Installation and Commissioning of new Metering System

LDSO Commissions Metering Equipment and provides D0383 to MOA.

As per Section 5.5 of CoP4, where measurement transformers are owned by a BSC Party, then that Party shall be responsible for the Commissioning of the relevant Metering Equipment.

Where measurement transformers are owned by a BSC Party that Party shall be responsible for ensuring the requirements of 5.5, are performed on its Metering Equipment up to and including the Testing Facilities. In addition that Party shall prepare, and make available upon request, complete and accurate commissioning records in relation to these obligations.

Where a BSC Party is acting as the Commissioning agent it should be noted that a Commissioning record must be created and be available for inspection if required. This record must be fully compliant with Section 5.5.4 (record keeping) of CoP4.

As detailed in BSCP515 (Section 3.3.A), where the LDSO (as the Metering Equipment owner) is responsible for Commissioning Metering Equipment, it is required to do so within 16 working days of the Energisation of the Metering System. Within five working days of successful Commissioning of the Metering Equipment, the LDSO is required to send the MOA a D0383 dataflow. The D0383 is intended to replace the need to pass full and complete CoP4 compliant Commissioning records. It seeks to give the MOA the data required to complete the Commissioning of Metering Equipment for which it is responsible.

For the avoidance of doubt, the D0383 is not a replacement for calibration certificates. Whilst the dataflow does include detail of the accuracy class of the Metering Equipment, this may not be sufficient for the MOA to prove that the overall accuracy of the Metering System is within the limits described in the relevant CoP. The CoP4 guidance held on ELEXON's website provides more information on the assessment of overall accuracy. As such, calibration certificates will need to be passed to the MOA.

The next section of this document will seek to provide guidance on how the relevant data items should be populated in each instance which they may be required.

The first data group within the dataflow (denoted above as "95L") details the Metering System ID and should always be populated.

The Data Items are detailed below:

MPAN Core - "J0003"

The Metering System ID (13 digit core MPAN) should be populated within this field.

Number of Feeders - "J2216"

The number of feeders (separate metered connections to the site) associated with the Metering System ID should be populated here. In the event that a site has multiple feeders, the D0383 should include data for each feeder. For instance, if the

Commissioning agent indicates that the Metering System has two feeders associated, there should be two instances of the relevant data groups, one for each feeder.

The following data group (96L) describes feeder specific information.

Feeder ID - "J2217"

The Commissioning agent should populate an ID to allow the MOA to identify the correct feeder when carrying out their own Commissioning. If possible this should match with identification on site to ensure the MOA is recording the correct Commissioning detail against the correct feeder. Where there is no clear identifier present at site then the LDSO should label multiple feeders by number (1, 2, 3 etc).

Feeder Status - "J1684"

This should be used to communicate whether a feeder is active or inactive.

Measurement Transformers Located at Defined Metering Point - "J2218"

Appendix A (Defined Metering Points) of the relevant Metering CoP requires Metering Equipment to be located at the Defined Metering Point (DMP) (as defined within the CoP). CoP 4 also requires the location of the Metering Equipment to be recorded as part of the Commissioning record. Where the Commissioning agent indicates that the Metering Equipment is not located at the DMP, a Metering Dispensation⁶ will be required.

Number of Phases - "J0427"

The Commissioning agent should populate the number of phases present at site.

CT Commissioning Information Available - "J2219"

This data item is managed by a valid set and can be populated as follows:

Yes (Y)	CT installed and Commissioning detail included in flow.
No (N)	CT installed and commissioning detail not included in the flow.

A Commissioning agent should only send the D0383 dataflow where they have successfully completed the Commissioning of the Metering Equipment.

Where Metering Equipment has been installed and Commissioned as part of a New Connection, then this data item should never be populated as "N".

The instance of "N" is only to be used where a change to Metering Equipment has taken place, leaving a Metering System comprised of Metering Equipment installed

⁶ BSCP27 Metering Dispensations

and Commissioned both pre and post implementation of BSC modification P283⁷. This process is described in detail later in this document.

Where all of the Metering Equipment comprised within the Metering System has been installed and energised post P283, this data item should always be populated as "Y".

VT Commissioning Information Available - "J2220"

This data item is managed by a valid set and can be populated as follows:

- Y VT Commissioning detail included in flow
- N VT Commissioning detail not included in flow
- None installed No VT installed at site.

A Commissioning agent should only send the D0383 dataflow where they have successfully completed the Commissioning all Metering Equipment for which they are responsible.

Where Metering Equipment has been installed and Commissioned as part of a New Connection, then this data item should never be populated as "N".

The instance of "N" is only to be used where a change to Metering Equipment has taken place leaving a Metering System comprised of Metering Equipment installed and Commissioned both pre and post implementation of BSC modification P283. This process is described in detail later in this document.

This data item is to be populated as "None Installed" where VTs are not installed at site, for instance at Low Voltage (LV) installations.

It is imperative that where VTs are not present at site, this is communicated through correct population of this data item.

98L	VT Details	1-*				G														If VT Commissioning Information Available = T
-----	------------	-----	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	---

The above is an extract from the VT Commissioning detail group (98L).

Whilst it is a mandatory data group, the D0383 was designed to allow VT related Commissioning information to be omitted where VTs are not installed on site.

As can be seen above, VT Commissioning information is only expected where data item J2220 (VT Commissioning Information Available) is set to "T".

⁷ Reinforcing the Commissioning of Metering Equipment Processes. Implemented 6 November 2014

Meter Commissioning Information Available - "J2221"

This data item is managed by a valid set and can be populated as follows:

- Y Meter installed and Commissioning detail included in flow
- N Meter installed and Commissioning detail not included in flow
- None installed No Meter installed at site
- NA LDSO sending dataflow to communicate measurement transformer Commissioning information.

Where the D0383 is sent by the LDSO to transfer measurement transformer Commissioning information to the MOA, this data item should always be populated as "NA".

This allows the LDSO to send Commissioning information for Metering Equipment under their ownership without having to assume responsibility for commenting of the status of the MOAs Metering Equipment.

The following data group (97L) is used to record Commissioning information relating to the CTs

96L	Feeder Information	1-*			G														
-----	--------------------	-----	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

97L	CT Details	1-*				G														If CT Commissioning Information Available =T
-----	------------	-----	--	--	--	---	--	--	--	--	--	--	--	--	--	--	--	--	--	--

As detailed previously, the "1-*" which can be seen in the extract above denotes that the data group is repeatable.

The placement of the character "G" within the data group signifies that the CT data group is a "child" group of the feeder information (96L). In practice, this signifies that each CT included within the 97L data group is associated with the feeder detailed in the previous 96L data group.

The D0383 should include Commissioning information on each CT, and each CT should have a corresponding data group within the D0383 dataflow.

Typically in a three phase LV connection, each phase will be measured and will have a CT installed (sometimes referred to as 3 phase 4 wire), and so the MOA can expect to receive three instances of the CT details group (97L).

Typically in a three phase High Voltage (HV) connection, only two phases are measured and so only two CTs will be installed.

Annex C of the Data Transfer Catalogue (DTC) states the following:

Where data item J2220 "VT Commissioning Information Available" is set to Y and group 97L has been repeated twice (once with J2222 "Phase Id" set to "L1" and once with J2222 set to "L3") the recipient should consider this a full commissioning record.

Whilst the above statements are true in typical installations, there may be some installations which do not follow this pattern. As previously stated, the D0383 is only to be sent where Commissioning has been completed and the Commissioning agent is confident of the accuracy of the data that it is transmitting.

The MOA should treat any information received on a D0383 as accurate, unless given reason to doubt its validity.

Phase ID - "J2222"

This data item is used to identify the phase related to the CT for which Commissioning information is being communicated.

This is a two character alphanumeric ID, and would usually be denoted as L1, L2, L3.

Commissioning Date - "J2223"

When populated within the D0383, the date recorded within the "Commissioning Date" data item should refer to the date that the specific item of Metering Equipment detailed within the data group was Commissioned. For instance, if a CT was changed on an existing Metering System, and so Commissioned at a later date, the Commissioning date within the data group related to the new CT would have a later date than the other Metering Equipment comprised within the Metering System. Within the D0383, the Commissioning date does not refer to the completion of end to end Commissioning testing.

Market Participant Role Code - "J0001"

The Market Participant Role Code of the responsible Commissioning party (LDSO or MOA) as defined within Market Domain Data (MDD).

Commissioning Agent MPID - "J2224"

The Market Participant ID of the responsible Commissioning Party.

CT Serial Number - "J2225"

The unique identifier given to the CT at manufacture and stamped onto the CT rating plate.

CT Class - "J0505"

The accuracy class of the CT.

Recipients of the D0383 Data Flow should note that some installations may include configurations of measurement transformers that differ from standard installations. As an example, comprised within a Metering System there could potentially be:

- Three separate VTs installed; a VT on each phase.
- Two separate VTs installed; a VT on two phases with the third unmeasured.
- A single three phase VT unit measuring all three phases⁸.

The MOA should interpret the population of the relevant Metering Equipment related data item (J219 or J220 within the "96L" data group) to the value of "T" as positive confirmation that the D0383 contains the Commissioning information related to all items of that type of Metering Equipment comprised within the Metering System.

MOA Commissions Metering Equipment

It is the responsibility of the MOA to ensure that the Metering System is Commissioned and is fully compliant with the requirements of the CoP it is registered against.

CoP4 states (5.5):

"... it shall be the responsibility of the relevant MOA to ensure that the Metering System complies with the requirements of the applicable CoPs including the assessment of overall accuracy based on any evidence provided by other Parties in accordance with CoP4."

To meet the above requirement the MOA must:

- Commission any Metering Equipment comprised within the Metering System for which it is responsible (Metering Equipment installed after the testing facilities; Meters, Outstations etc).
- ensure that the Metering System correctly records energy flows used for Settlement purposes.

Data Group "99L" - Meter Details.

The final data group within the D0383 dataflow is to be used to record the Commissioning information associated with each installed Meter.

The "99L" data group will not be present within the D0383 dataflow on initial installation and Commissioning of Metering Equipment. As the MOA is responsible for Commissioning the Meter, it does not need to transfer the Commissioning information to any other parties.

However, if in the future the Metering System was to go through the COA process, then the MOA would be required to transfer Commissioning information to the new

⁸ Measurements transformers may be installed as part of a contained unit. This may lead to the same serial number recorded against all items of the same Metering Equipment comprised within the Metering System.

MOA via the 99L data group within the D0383. Therefore, at the point of Commissioning the MOA should ensure that data is recorded in such a way that would allow the population of the 99L data group should it be required.

The following section provides guidance on the data items relevant to the MOA.

[Data group 97L \(CT details\), data item J2227 - "Overall Burden on CT"](#)

As detailed previously, on receipt of the D0383 from the LDSO this data item will be unpopulated.

The MOA should use the burden values provided by the LDSO in addition to the burden measured in the Commissioning of their own Metering Equipment to calculate the overall burden imposed on the CT.

This data item should be populated where the MOA sends a D0383 dataflow as part of the COA process.

The above principle also applies to data item J2230 "Overall Burden on VT" within the "98L" (VT details) data group.

Data Group "99L" - Meter Details.

[Commissioning Date - "J2223"](#)

The date that the Commissioning of the Meter was completed.

[Commissioning Agent MPID - "J2224"](#)

The Market Participant ID of the responsible Commissioning Party.

[Meter ID \(Serial Number\) - "J0004"](#)

The serial number which is stamped onto the Meter nameplate at manufacture, which is used as the main identifier of a Meter.

[Meter Accuracy Class - "J2231"](#)

The accuracy class of the Meter.

[CT Ratio - "J0454"](#)

The CT ratio configured within the Meter by the MOA.

[VT Ratio - "J0455"](#)

The VT ratio configured within the Meter by the MOA.

[Compensation Applied to Meters - "J2232"](#)

This data item should be used to confirm whether any compensation factors have been applied to the Meter.

In some cases, compensation factors may have been applied to the Meter to account for measurement transformer errors, electrical line losses or power transformer losses. The latter two are usually required where the Metering Equipment is not located at the DMP (as defined in appendix A of the relevant CoP).

This data item can either be populated as true ("T") or false ("F").

If, on a COA, this data item was populated as "T", the incoming MOA should request the compensation factors from the previous MOA.

D0384 - "Notification of Commissioning Status"

The MOA is required under CoP4 to notify the Supplier⁹ of the Commissioning status of the Metering System.

CoP4 states:

In the case of Half Hourly Metering Equipment it shall be the responsibility of the MOA to notify its Registrant, via an auditable, electronic method, that either:

- All items of Metering Equipment have been fully and successfully Commissioned in accordance with this CoP4; or that
- There are defects or omissions in the completion of the processes set out in this CoP4 which have the potential to affect Settlement.

The timescales in which the Commissioning of a Metering System should be completed following Energisation are defined within BSCPs 514¹⁰ and 515¹¹.

The D0384 dataflow is to be used by the MOA to communicate the Commissioning status of the Metering System. This dataflow should be used to communicate both successful Commissioning of a Metering System, as well as any defects or omissions that have prevented Commissioning.

This section will provide guidance on the population of the D0384 in consideration to the different circumstances in which it is sent.

00M	MPAN Cores	1-*		G																	
					1																MPAN Core
					1																Measurement Transformer Commissioning completed
					1																MOA Commissioning completed
					1																Overall Accuracy of Meter System within BSC Code of Practice limits
01M	Feeder Information	0-*		G																	

⁹ CoP4 requires notification to be provided to the Registrant. However, as the process discussed within this document apply only to Metering Systems in Supplier Volume Allocation (SVA), the term Supplier is appropriate.

¹⁰ SVA Meter Operations for Metering Systems Registered in SMRS

¹¹ Licensed Distribution

00M	MPAN Cores	1-*		G									
						1							Defect/Omission Reason
						O							D170 rejection Description
						1							Risk to Settlement
						O							Defect/Omission resolution information

Notification of Commissioning Status following completed, compliant Commissioning

Where the measurement transformers are owned by the LDSO, [BSCP514](#) defines two timescales in relation to the Commissioning of the Metering System.

- The LDSO is required to Commission the Metering Equipment, for which it is responsible, within 16 working days of the Energisation of the Metering System. Following completed Commissioning, the LDSO must transfer the Commissioning detail via the D0383 dataflow within five working days.
- The MOA is required to have attempted to Commission the Metering Equipment for which it is responsible within 32 working days of Energisation.

Where Commissioning has been completed within the timescales described above, the MOA should use the D0384 dataflow to notify the Supplier that Commissioning has been completed.

The structure of the D0384 dataflow and its associated data groups and data items is detailed in the above image.

Where Commissioning has successfully been completed then the D0384 would only include the "00M - MPAN cores" data group.

Data Group "00M" - MPAN cores

MPAN Core - "J0003"

The Metering System ID (13 digit core MPAN) should be populated within this field.

Measurement Transformer Commissioning Completed - "J2233"

This data item is used to communicate the Commissioning status of the measurement transformers.

This data item can either be populated as true ("T") or false ("F").

Where Commissioning of all measurement transformers installed within the Metering System has been successfully completed, this Data Item should be set to "T".

MOA Commissioning Completed - "J2234"

This Data Item is used to communicate the Commissioning status of the Meter.

This Data Item can either be populated as true ("T") or false ("F").

Where Commissioning of each Meter installed within the Metering System has been successfully completed, this Data Item should be set to "T".

Overall Accuracy of Metering System within Limit(s) Defined within the Relevant BSC CoP - "J2235"

This data item is used to communicate the Commissioning status of the Metering System.

This data item can either be populated as true ("T") or false ("F").

This data item should be populated as "T" where Commissioning of all Metering Equipment has been completed and associated Commissioning information has been received by the MOA.

In some cases, the MOA may be able to complete Commissioning of all Metering Equipment comprised within the Metering System¹². For the avoidance of doubt, this data item should only be set to "T" where the MOA has received the D0383 dataflow. The non-receipt of a D0383 dataflow should be recorded as an omission in the Commissioning process regardless of the physical testing that the MOA has been able to complete on site.

A Supplier should consider receipt of a D0384 dataflow confirmation of completed commissioning provided:

- The D0384 dataflow includes only the 00M Data Group.
- Each Data Item within the 00M Data Group (excluding the MPAN) is populated as "T".

If any of the above data items are populated as "F" then the "01M" (feeder information) data group must be included within the dataflow.

Notification of a defect or omission that has prevented Commissioning

As previously stated, where a defect or omission has prevented the Commissioning of the Metering System within the timescales defined in [BSCP514](#) and [BSCP515](#), the MOA must notify the Supplier.

The timescales are summarised below.

Where the measurement transformers are owned by the LDSO, then the MOA should receive the D0383 dataflow within 21 working days of Energisation of the Metering

¹² Typically the MOA can Commission all of the Metering Equipment comprised within the Metering System in LV installations.

System. In the event that the D0383 dataflow is not received by the MOA in the defined timescales, then the MOA must notify the Supplier via the D0384 dataflow 22 working days following Energisation.

The MOA is required to attempt to Commission the Meter(s) (and confirm the Metering System complies with the requirements detailed in the relevant CoP) within 32 working days of Energisation. Where a defect or omission in the Commission process has prevented complete Commissioning, the MOA should notify the Supplier within five working days of the date of the Commissioning attempt.

Where the only defect or omission that has prevented Commissioning is the non-receipt of a D0383 dataflow from the LDSO (and so should have already been communicated via D0384 dataflow) then the MOA does not need to send a second D0384 dataflow.

On receipt of a D0384 from the MOA indicating that Commissioning is incomplete, the Supplier should respond with a D0384 dataflow within 65 working days of Energisation of the Metering System. This instance of the D0384 is intended to be used as a response to the initial notification received from the MOA. The Supplier (as Registrant of the Metering System) has overall responsibility for the accuracy of the Metering System (including ensuring that all Metering Equipment comprised within the Metering System have been Commissioned). As such, the Supplier holds the overall responsibility for the rectification of any defect or omission that has prevented the Commissioning process. The instance of the D0384 from the Supplier to the MOA is to be used as a means for the Supplier to provide the MOA details of the progress of the rectification.

Following receipt of the D0384 from the Supplier, the MOA is required to Commission the Meter(s) (and confirm the Metering System complies with the requirements detailed in the relevant CoP) within 80 working days of Energisation. Within five working days of completion of Commissioning, the MOA is required to notify the Supplier via the D0384 dataflow.

As it is expected that completion of Commissioning should not exceed 80 working days, BSCP514 does not detail what action should be taken should Commissioning remain uncompleted within this timescale. In the event that any item of Metering Equipment within the Metering System remains uncommissioned outside of the required timescale, the MOA should continue to notify the Supplier of any failed Commissioning attempts using the D0384 dataflow. Similarly the Supplier should continue to respond to the MOA with instructions for the rectification of the defect or omission that has prevented Commissioning. This process should be repeated until all items of Metering Equipment comprised within the Metering System have been Commissioned successfully.

Appendix 2 of this document is a high level process map detailing the points within the Commissioning process that the dataflows should be sent and the associated timescales.

Use of the D0384 in the notification of a defect or omission that has prevented Commissioning.

The MOA has responsibility for the initial notification to the Supplier of the defect or omission that has prevented Commissioning. The MOA should notify the Supplier of the defect or omission via the D0384 dataflow.

The MOA should indicate which Metering Equipment remains uncommissioned via the population of the data items within the 00M (MPAN Cores) data group of the D0384.

For example, if a defect or omission has prevented Commissioning of the measurement transformers, then the associated data item (J2233) would be set to "F".

In the event that the Commissioning of any item of Metering Equipment has not been completed, then the assessment of the overall accuracy of the Metering System must also be incomplete. For clarity, where data group 00M is populated to indicate a defect or omission relating to the Commissioning of either the measurement transformers or the Meter, data item J2235 (Overall Accuracy of Metering System within Limit(s) Defined within the Relevant BSC CoP) should be populated as "F".

It is the MOA's responsibility to report the Commissioning status of the Metering System (and the Metering Equipment comprised within the Metering System) and as such the data items comprised within the 00M data group should only ever be populated, or changed by the MOA.

The MOA should send an updated D0384 where rectification of the defect or omission has resulted in successful completion of the Commissioning of an item of Metering Equipment.

Where any of the data items within the 00M group of the D0384 is set to "F" then the data group "01M" (feeder information) is mandatory and must be populated. This data group is used to provide a detailed explanation of the defect or omission that has prevented Commissioning.

Data Group "01M" - feeder information.

Defect/Omission Reason - "J2236"

This data item is used to notify the Supplier of the nature of the defect or omission that has prevented Commissioning. It should only ever be populated or changed by the MOA.

This data item can only be populated with a value defined in its associated valid set.

The valid set is as follows:

Value	Description
01	Rejection to request for D0215 received via D0382 flow DNO.
02	Notification of Commissioning Information flow D0383 not received from DNO
03	Insufficient load to complete commissioning
04	Commissioning site visit failed due to customer no access.
05	Suspect or invalid data received in Notification of Commissioning Information D0383 flow received from DNO.
06	Site de-energised
07	No longer appointed MOA.
08	Meter on site not CT operated.

The following section of this document provides a brief explanation of each scenario for which the defect reasons within the above valid set may be selected.

"01" - Rejection to request for D0215 received via D0382 dataflow from DNO.

Where a new Metering System is to be registered, the LDSO is required to send a D0215 (site technical details) dataflow to the MOA. The D0215 is used by the LDSO to notify the MOA of the high level technical configuration of the site at which the Metering System is to be installed. The D0215 includes proposed technical data related to the measurement transformers (ratio, rating, etc.) and supply capacity.

In some cases the LDSO may be unable to provide accurate technical data where a D0215 is requested. In these cases, the LDSO will send a D0382¹³ dataflow (Rejection Response for Request to LDSO for Site Technical Details). Within the D0382 the LDSO will specify the reason that it is unable to provide a completed D0215 dataflow.

It is often the case that where the LDSO has been unable to provide a completed D0215 dataflow, this will also act as a barrier to the timely Commissioning of the Metering Equipment. Therefore, the data item used to provide this rejection reason within the D0382 dataflow ("J2215" - D0170 Rejection Description) is cloned within the above valid set. Where appropriate, the MOA can easily copy and transfer the relevant information from the D0382 dataflow to the D0384.

The rejection reason provided by the LDSO within the D0382 dataflow is also managed by a valid set. This valid set is provided below for information, however

¹³ Implemented under CP1495, 1 November 2018

please note that this document does not seek to provide details on the reasons for rejection of a D0215.

The D0215 must also be sent by the LDSO following any change to the Metering Equipment (for which they are responsible) comprised within the Metering System.

- 01 Measurement transformers installed pre 6 November 2008 (BSC CP1225)
- 02 Measurement transformers not owned by DNO and are unlikely to ever be adopted into DNO ownership.
- 03 Measurement transformers not DNO owned and not yet adopted into DNO ownership.
- 04 DNO not relevant network operator for Metering Point.
- 05 Measurement transformer ratio(s) unknown

This defect will typically be related to the Commissioning of the measurement transformers.

"02" - Notification of Commissioning Information flow D0383 not received from DNO

This reason code should be used in the event that the MOA does not receive the D0383 dataflow from the LDSO within the timescales defined in BSCP514 and BSCP515 as described previously in this document.

Where the Supplier is notified of the non-provision of the D0383 dataflow it should escalate this omission to the relevant LDSO.

This escalation can be communicated via the D0384. Guidance on how this can be achieved is detailed later in this document.

"03" - Insufficient load to complete commissioning

For the results of certain Commissioning tests to be considered accurate, the Metering System must be recording a large enough amount of energy to enable an accurate comparison between the primary energy passing through the measurement transformers and the energy produced in the secondary circuit measured by the Meter.

This can be achieved via the injection of energy into the Metering System. However, previous feedback from Commissioning parties within the industry indicates that the preferred method of Commissioning is to use on-load testing.

On-load testing can also provide added assurance around other factors related to the accuracy of a Metering System such as phase rotation.

Where on load testing is used to Commission Metering Equipment, the ability to complete the Commissioning tests is dependent on the amount of energy supplying (or being generated at) the site and measured by the Metering System at the time.

Therefore, where a Metering System is not recording a large enough amount of energy to provide credible Commissioning results, the completion of the Commissioning of all Metering Equipment comprised within the Metering System may be delayed.

"04" - Commissioning site visit failed due to customer no access.

This reason code is to be used where an end consumer has prevented the Commissioning agent gaining access to the Metering System.

On receipt of notification of this defect, the Supplier should support the Commissioning agent in gaining access to the Metering System. The Supplier should escalate the failure to gain access to the customer and support the Commissioning agent in rectifying any issues which are resulting in the refusal of access.

"05" - Suspect or invalid data received in Notification of Commissioning Information D0383 flow received from DNO.

This reason code should be used where the MOA has a valid reason to suspect the accuracy of the data received from the LDSO via the D0383 dataflow.

There may be various reasons why the MOA could suspect the accuracy of the data provided in the D0383. It may be evident that an obvious mistake has been made in the population of a data item (for example the population of two CT ratios as 100/5 and one ratio populated as 1000/5).

The MOA may have attended the premises at which the Metering System is registered and recorded data contradictory to that which it receives within the D0383 dataflow.

On receipt of this defect reason, the Supplier should escalate to the relevant LDSO the MOA's concern over the accuracy of the data provided within the D0383 dataflow.

The Supplier should notify the MOA of the LDSOs response via the D0384 dataflow.

"06" - Site de-energised

This defect reason should be used where a Commissioning test has been unable to be completed due to the Metering System being physically de-energised.

The timescales; in which Commissioning of the Metering Equipment comprised within the Metering System is required to be completed; do not commence until the Metering System is Energised within the Settlement system.

On receipt of this defect reason, the Supplier should work with the Commissioning agent and the consumer to ascertain the reason for the de-energisation of the Metering System, and whether the Metering System is likely to be energised in the future and thus require a Commissioning test.

As Commissioning is not required for Metering Systems that are de-energised, it could be that the Metering System is logically energised within Settlement systems but physically de-energised at the premises. If this is the case, the Supplier should seek to ensure the Metering System is logically de-energised as soon as possible to ensure the accuracy of Settlement data is maintained.

"07" - No longer appointed MOA.

This defect reason should be used where the MOA is no longer appointed. This may occur as a result of a COA, or could be the result of a dataflow being accidentally transmitted to the incorrect agent.

On receipt of this defect reason, the Supplier should validate the MOA's response. Where the MOA is no longer the appointed agent, the Supplier should seek to appoint an MOA immediately.

For the avoidance of doubt, an MOA should report this as an omission to the Supplier via the D0384 in the event that they are no longer the appointed MOA agent visible to the Settlement systems and under the BSC.

This defect reason is not to be used where the commercial relationship held by the MOA (either with the Supplier or the customer) has ended or broken down. A commercially related reason for a delay in the Commissioning process will not be considered as a valid defect or omission where the MOA has not been de-appointed.

"08" - Meter on site not CT operated

The Commissioning processes (as detailed in BSCP514 and 515) for which the D0383 and D0384 are utilised are only applicable to Metering Systems that are CT operated.

Where the output of a Metering System is measured through the use of a Whole Current Meter, the processes detailed in this document do not apply.

Where this defect reason is received, the Supplier should seek to validate the MOA's feedback. This may be through evidence provided by the MOA, or validation with the customer.

If the Meter is found to be non-CT operated, the Supplier should work with each related Commissioning agent to ensure that all Settlement data is aligned and accurate.

This completes the valid set associated with the defect or omission that prevented Commissioning. The following guidance is in relation to separate data items.

D170 Rejection Description - "J2215"

This data item is optional, and should only be populated where the given defect reason is "01 - Rejection to request for D0215 received via D0382 dataflow from DNO".

Where populated, this data item should be copied from the D0382 dataflow received from the LDSO and contain a valid reason code as described previously.

As this data item is directly related to the defect reason provided within the "J2236" data item, it should only ever be populated by the MOA.

Risk to Settlement - "J2237"

Where notified of a defect or omission that has prevented the completion of Commissioning, CoP4 requires the Supplier to assess the risk posed to Settlement as a result of the uncommissioned Metering Equipment.

This data item is used to indicate the perceived risk level and is managed via a valid set. This valid set is as follows:

Value	Description
H	High
M	Medium
L	Low
N	None

Guidance on assessing the risk to Settlement caused by a failure to Commission all Metering Equipment comprised within a Metering System is detailed in the ELEXON guidance note "CoP 4 Commissioning of measurement transformers for Settlement purposes".

As stated previously, the first instance of the D0384 will be sent by the MOA to the Supplier to communicate the defect that has prevented Commissioning. Within this initial instance of the D0384, the MOA should populate this data item in order to communicate to the Supplier its assessment of the risk to Settlement.

As the MOA has been actively involved in the attempted Commissioning of the Metering Equipment, and is often more technically knowledgeable concerning Metering Equipment, the MOA is an appropriate agent to advise the Supplier on the potential risk to Settlement posed by the Metering System.

In the first instance that the Supplier sends the D0384, either as a response to the MOA or as an escalation to the LDSO, the responsibility for assessment of the risk to Settlement (indicated via this data item) becomes that of the Supplier. The Supplier, using the information provided by the MOA, should either leave the value populated

by the MOA unchanged (if it is agreeable with the MOA's opinion of the risk to Settlement) or change the value within the "J2237" data item. Following the Suppliers initial decision (and population) of the risk to Settlement, this data item should only ever be changed by the Supplier (where they believe that the risk to Settlement has changed).

[Defect/Omission resolution information - "J2238"](#)

The final data item within the D0384 dataflow is a 200 character free text field.

As population of much of the previous data items within the D0384 dataflow are subject to limited values, this data item is to be used to provide any detailed information relating to the progress of the Commissioning.

This data item should always be populated by the sender of the instance of the D0384 in which it is included.

The text within this field should describe in detail the reason for the transmission of the D0384, and all relevant information required by the recipient in order to progress with the Commissioning of the Metering Equipment.

The MOA should use this data item to provide the Supplier with a detailed description of the defect, any actions taken in attempted resolution, and any assistance that the MOA requires from the Supplier.

The Supplier should use this data item to provide the MOA with information relating to the resolution of the defect, and any specific instructions that MOA requires. The Supplier should detail within this field, its expectation of the next steps to be taken by the MOA.

[Extra use of the D0384](#)

The timescales defined in BSCP514 and 515 (and detailed previously in this document) are the minimum instances of the D0384 that must be sent where Commissioning is incomplete.

However, the D0384 was designed to be used as a tool for open and constant communication between the Supplier and the relevant Commissioning agents.

The D0384 can (and is recommended to) be used as a means of updating all affected parties of any progress made towards the rectification of the defect.

It is for this reason that the D0384 dataflow can be sent from the Supplier to the LDSO. This provides the Supplier with an easy method of escalating any issues reported by the MOA to the LDSO, and similarly an efficient and auditable method of updating the MOA of the LDSOs response.

The D0384 can also be sent by the LDSO to the Supplier. It is intended that the use of a dataflow will provide the LDSO with an easier, more effective way of responding to any escalations.

Changes to Items of Metering Equipment comprised within an existing Metering System

Where an item of Metering Equipment comprised within a Metering System is changed, the replacement Metering Equipment must be Commissioned.

CoP4 states:

“Commissioning shall be performed on all new Metering Equipment which is to provide metering data for Settlement.”

As with Metering Equipment installed as part of a new Metering System, Commissioning information related to any new Metering Equipment installed within the life of a Metering System should be recorded and transferred via the D0383, and D0384 dataflows.

Where individual items of new Metering Equipment are installed within an existing Metering System (either as; an addition to, or replacement of; existing Metering Equipment) only those items of Metering Equipment are required to be Commissioned.

CoP4 states:

Where individual items of Metering Equipment are to be replaced then only those items are required to be Commissioned. For clarification, Metering Systems in their entirety need not be re-Commissioned when items are replaced within that system.

Whilst only items of new Metering Equipment are to be commissioned, the D0383 dataflow must represent an up to date Commissioning record of the Metering System as a whole. The D0383 should not omit Commissioning information for the existing items of Metering Equipment that have remained unchanged.

Where a Metering System was installed and energised post BSC Modification P283, it is expected that Commissioning information for all items of Metering Equipment within the Metering System will be available. Where Commissioning information is available and provided (via the D0383) for all Metering Equipment comprised within the Metering System, data item “J2219 - CT Commissioning information available” within the “96L” (feeder information) data group should be populated as “Y”.

Where a change is made by the LDSO to the measurement transformers comprised within a Metering System, then it should send a new D0383 dataflow to the MOA. Depending on the changes made, (CTs or VTs or both) the D0383 should include an updated “97L” (CT details) and/or “98L” (VT details) data group for each new item of Metering Equipment.

The relevant data group, relating to Commissioning information associated with the new Item of Metering Equipment, should be populated as previously detailed.

Where existing Metering Equipment is re-commissioned but not replaced, the LDSO should send a new D0383 dataflow with an updated Commissioning date recorded under the relevant "97L" data for each item of Metering Equipment that has been re-commissioned.

On receipt of a D0383 from the LDSO for a previously Commissioned Metering System, the MOA should expect the dataflow to contain an update to the data previously held. The simplest way to identify new Commissioning data would be through the "Commissioning date" data item. Where Metering Equipment has been changed, or re-Commissioned, an updated Commissioning date should be populated within each data group associated with that item of Metering Equipment.

On receipt of an updated D0383 the MOA should consider the burden values of the newly installed Metering Equipment provided by the LDSO. If the burden connected to the Metering Equipment is different from that of the previous Metering Equipment, the MOA will need to re-assess and re-calculate the overall burden connected to the CT.

Should the MOA receive a D0383 dataflow for an existing Metering System (for which it has previously received a valid D0383) which meets any of the following criteria:

- Commissioning date provided is previous to existing Commissioning date,
- Commissioning data previously provided by LDSO has been omitted from updated D0383 with no replacement Metering Equipment included,
- Commissioning data provided for new item of Metering Equipment does not align with previously held Commissioning data (for example, CT ratio of new Metering Equipment does not match other installed Metering Equipment)

Then a D0384 dataflow should be sent to the Supplier citing "05 - Suspect or invalid data received in Notification of Commissioning Information D0383 flow received from DNO" as the defect/omission reason.

For the avoidance of doubt, where a Metering System has previously been communicated to the Supplier as fully Commissioned, an MOA does not to send a D0384 dataflow on receipt of a valid D0383 used to communicate updated Commissioning information.

In some scenarios where Metering Equipment is changed, it may not be possible to include Commissioning information for all Metering Equipment comprised within the Metering System. Primarily, this should only be the case where the Metering System was installed and registered prior to the implementation of BSC Modification [P283](#).

Prior to the implementation of [P283](#), [CoP4](#) placed the responsibility for the Commissioning of all Metering Equipment on the MOA. Whilst in practice the LDSO was likely to have Commissioned measurement transformers comprised within a Metering System, there was no specific requirement within [CoP4](#) on the LDSO to transfer a Commissioning record to the MOA until the implementation of [P283](#). [P283](#) sought to provide a solution to the issues encountered within the Commissioning

process from the point of implementation. As such, it is recognised that for Metering Equipment installed and energised pre-P283 Commissioning evidence is likely to be unavailable.

Where an LDSO makes changes to Metering Equipment installed within a Metering System registered pre-P283 implementation, the new items of Metering Equipment are required to be Commissioned. The Commissioning details associated with the new Metering Equipment should be passed via the D0383 dataflow.

Where; following a change to Metering Equipment within an existing Metering System; a Metering System is comprised of Metering Equipment installed both pre and post P283 implementation, the LDSO should send the relevant Commissioning detail related to the new items of Metering Equipment.

The D0383 dataflow can be used to transfer Commissioning detail in this scenario, whilst also informing the MOA of the existence of other Metering Equipment installed at site for which Commissioning information is unavailable.

This notification is achieved through the use of either; data item "J2219- CT Commissioning information available" or "J220- VT Commissioning information available" dependant on the Metering Equipment comprised within the Metering System.

Both data items (located within the feeder information data group "96L") include the value of "N" as part of their respective associated valid sets. This value is to be used to indicate that legacy Metering Equipment exists within the Metering System for which Commissioning information is unavailable. Commissioning information should be included within the D0383 dataflow for each item of Metering Equipment installed since the implementation of P283.

For clarity, where legacy (pre-P283) CTs are installed for which Commissioning information is unavailable, the "CT Commissioning information available" data item should be set to "N". A "97L- CT details" data group should be included for each CT for which Commissioning information is available.

Similarly, where legacy (pre-P283) VTs are installed for which Commissioning information is unavailable, the "VT Commissioning information available" data item should be set to "N". A "98L- VT details" data group should be included for each VT for which Commissioning information is available.

For this reason it is critical that the value of "N" is not used to indicate that no VTs are installed within the Metering System. Where the installation is Low Voltage (LV), the value of "none installed" should be used to indicate that no VTs are comprised within the Metering System.

On receipt of a D0383 dataflow from the LDSO where either data item "J2219 - CT Commissioning information available" or "J2220- VT Commissioning information available" is set to "N", the MOA should expect only to receive Commissioning information related to new items of Metering Equipment.

The omission of Commissioning information related to Metering Equipment installed pre P283 implementation should not be considered a defect or omission. If the MOA has no reason to query the Commissioning data provided for each new item of Metering Equipment it needs take no further action. For the avoidance of doubt, the MOA does not need to send a D0384 dataflow to indicate that Commissioning detail related to Metering Equipment installed pre-P283 is omitted from the D0383 dataflow.

Where the Metering System has been initially registered and energised post P283, the LDSO would have been required under CoP4 to provide a complete Commissioning record for all CTs and VTs installed within the Metering System.

Should the MOA receive a D0383 dataflow indicating that Commissioning information is unavailable for a Metering System it believes to have been registered and energised post P283-implementation, a D0384 dataflow should be sent to the Supplier to highlight the MOAs concerns.

The D0384 in this scenario would cite "05 - Suspect or invalid data received in Notification of Commissioning Information D0383 flow received from DNO" as the defect reason.

Should Commissioning information be available for legacy Metering Equipment, a Commissioning agent may create a D0383 dataflow should it wish to do so (provided enough detail is included on the Commissioning record in order to populate the relevant data items within the dataflow.) An MOA in particular may wish to do this for ease in transferring Commissioning information on a COA. In the event that a D0383 dataflow is created for legacy Metering Equipment, and Commissioning detail is available for all items of Metering Equipment, the creator of the dataflow should follow the same process and rules as defined above.

Transfer of Commissioning information within the COA process

BSCP514 details an MOA's obligations where it is de-appointed by a Supplier as part of the COA process. Section 2.2.2 (c) of BSCP514 details the data that an outgoing MOA is required to transfer to an incoming MOA on a COA. This section reads:

- Data and other information to be transferred shall include Meter Technical Details including that relating to the associated Communications Equipment as appropriate, **commissioning data**, mapping data and certification and/or calibration details.

Prior to the implementation of CP1497, this was the only reference made to the transfer of Commissioning information on a COA. CP1497 implemented a specific process within BSCP514 in relation to the transfer of Commissioning related data utilising the D0383 and D0384 dataflows.

Where an MOA is required to transfer Commissioning data as part of the COA process it should use the D0383 and D0384 dataflows to do so.

The outgoing MOA must update the incoming MOA of the Commissioning status of the Metering System. Both the D0383 and the D0384 can be used together to allow for a detailed record of the Commissioning status of the Metering System to be communicated. The population of the dataflows may change dependent on the Commissioning status of the Metering Equipment.

This section provides guidance on the population of the D0383 and D0384 where the dataflows are to be used within the COA process. Guidance is provided on a number of scenarios (different Commissioning statuses) and seeks to provide sufficient information for an MOA to understand its obligations in all cases. It does not intend to provide an exhaustive list.

Metering System installed and energised post P283. Metering System fully Commissioned.

Where a Metering System (and so all Metering Equipment comprised within) has been fully Commissioned within the outgoing MOA's appointment, the outgoing MOA is required to send fully a completed D0383 dataflow to the incoming MOA. The D0383 should include Commissioning detail for each item of Metering Equipment comprised within the Metering System.

The data groups related to Commissioning information for any installed measurement transformers will have been provided by the LDSO. Where the D0383 dataflow is sent as part of the COA process, these data groups should mimic those received via the LDSO and remain unchanged.

On COA, the responsibility for the population and transfer of accurate¹⁴ data within the D0383 dataflow lies with the outgoing MOA.

As well as the Commissioning information related to the measurement transformers, the D0383 must include data group "99L - Meter details". As previously stated, the MOA must consider and ensure, at the point of Commissioning, that Commissioning data related to the Meter(s) is recorded in such a way that allows for population of the "99L" data group within the D0383 where required.

The MOA should also ensure that the "overall burden" (for which the values will have been calculated and recorded as part of the Commissioning process) data items are populated within the relevant data group for each item of Metering Equipment.

The incoming MOA should take receipt of a fully populated D0383 as confirmation that all Metering Equipment comprised within the Metering System has been Commissioned. The MOA appointed as the incoming agent is required under BSCP514 (5.2.1.11) to notify the Supplier of the Commissioning status of the Metering System. The D0384 dataflow should be used as the means to meet this requirement.

Following receipt of a fully populated D0383, the incoming MOA should send the D0384 dataflow indicating to the Supplier that the Metering System is fully Commissioned. Suppliers should expect to receive a D0384 dataflow as part of any change of MOA in relation to Metering Systems where the Metering Equipment includes measurements transformers.

¹⁴ Accurate, in this context, means accurate when compared with the data provided by the LDSO. The MOA will not be held accountable should an error be identified with the data initially provided by the LDSO. The MOA is responsible for accurate population of the Commissioning information provided by the LDSO within the D0383.

Transfer of Commissioning information where Commissioning is incomplete

In any instance where Commissioning of all Metering Equipment comprised within the Metering System has not been Commissioned, the outgoing MOA must notify the incoming MOA of the complete view of the Commissioning status of the Metering System.

It should be noted that, aside from where Commissioning has been fully completed, the outgoing MOA will be required to send a D0384 dataflow to the incoming MOA. The outgoing MOA should also provide any Commissioning information that is available via the D0383 dataflow.

Commissioning information unavailable for all Metering Equipment.

In the event that Commissioning information is unavailable for all items of Metering Equipment, the outgoing MOA will be unable to send a D0383 dataflow.

In this instance the MOA should send a D0384 dataflow to the incoming MOA. The D0384 must indicate the items of Metering Equipment for which Commissioning is outstanding (in the scenario detailed here all data items (excluding MPAN core) should be set to "F").

The "01M" (feeder information) data group should be populated as it would to notify the Supplier of a defect or omission in the Commissioning process (as detailed previously). The D0384 must include the defect or omission reason that has prevented the progress of the Commissioning of the Metering Equipment. Where additional information is required to allow the incoming MOA to fully understand the defect, this should be provided within the free text data item "J2238-Defect/Omission resolution information". The D0384 should include sufficient detail to allow the incoming MOA to fully understand how the defect has occurred, why it has prevented Commissioning of the Metering Equipment and what action has already been taken to attempt rectification.

The outgoing MOA agent will also be required to populate the "J2237 - risk to Settlement" data item. Where they differ, the outgoing MOA may choose to provide their own assessment or may use that of the previous Supplier. As the COA process will trigger a new Supplier-MOA relationship, the risk to Settlement will ultimately be determined between the incoming MOA and Supplier. As such the population of the "risk to Settlement" data item will follow the same rules as described previously.

Following receipt of the D0384, the incoming MOA should use the data provided by the previous MOA to notify the Supplier of the Commissioning status of the Metering System. The incoming MOA should assess the risk to Settlement using the information provided by the previous MOA.

Following the notification of the Commissioning status of the Metering System (via the D0384) to the Supplier, the same process should be followed as described

previously for the rectification of defects or omissions that are preventing Commissioning.

[Commissioning information is only available for the measurement transformers associated with the Metering System.](#)

Where Commissioning information is available for limited items of Metering Equipment, then that information should be transferred to the incoming MOA. In any instance where incomplete Commissioning information is transferred as part of the COA process, the outgoing MOA will be required to send both the D0383 and D0384 dataflows.

[D0383](#)

The D0383 dataflow should indicate within the "96L" (feeder information) data group for which items of Metering Equipment Commissioning information has been provided (and which is missing).

In the scenario detailed here:

- "J2219- CT Commissioning information available" would be set to "Y".
- "J2220- VT Commissioning information available" would be set to either "Y" or "none installed" dependent on the installation.
- "Meter Commissioning information available?" would be set to "N".

Commissioning information provided by the LDSO should then be transferred to the incoming MOA via the relevant data groups within the D0383 dataflow.

Data group "99L- Meter details" would be omitted.

[D0384](#)

The outgoing MOA should also notify the incoming MOA of the Commissioning status of the Metering System via the D0384. The data items within data group "00M" (MPAN cores) of the D0384 should identify the Commissioning status of each item of Metering Equipment.

In the scenario detailed here:

- "J2233- Measurement Transformer Commissioning Completed" should be set to "T"
- "J2234- MOA Commissioning completed" should be set to "F"
- "J2235- Overall Accuracy of Meter System within BSC Code of Practice limits" should be set to "F".

The defect or omission reason responsible for the prevention of Commissioning should be detailed via the "01M" (feeder information) data group as previously described.

Following receipt of the D0384 dataflow, the incoming MOA should use the information provided by the previous MOA to notify the Supplier of the Commissioning status of the Metering Equipment.

The process previously described for the rectification of defects/omissions within the Commissioning process will remain unchanged following the receipt of the D0384 by the Supplier.

Only Commissioning information relating to Meter(s) available.

Where only Commissioning information related to the Meter is available, the outgoing MOA should transfer the available Commissioning information to the incoming MOA.

The same principal applies as where Commissioning information is transferred in relation to the measurement transformers only. As such the end to end process would also be the same.

Both the D0383 and D0384 should be populated in such a way to signify to the incoming MOA, the items of Metering Equipment for which the Commissioning information provided relates to (as well as highlighting missing Commissioning information).

The principal in populating the dataflows remains the same as described in the previous section; however the data items would be populated in reverse.

For instance, "J2221- Meter Commissioning information available" would be set to "Y" as opposed to "N".

Where Commissioning information relating to the measurement transformers is to be omitted from the D0383 dataflow (sent as part of the COA process), it is essential that the D0383 is considered in conjunction with the D0384 dataflow.

As previously detailed, where Commissioning information is transferred by the LDSO within an active appointment, the value of "N" within the "J2219- CT Commissioning Information Available" data item is used to signify the existence of legacy (pre P283 implementation) Metering Equipment for which Commissioning information is not available. The omission of Commissioning data related to legacy Metering Equipment is not to be considered as a defect or omission within the Commissioning process.

However, the valid set within the "J2219- CT Commissioning Information Available" Data Item consists only of

Y CT installed and commissioning detail included in flow.

N CT installed and commissioning detail not included in flow.

Where Commissioning information related to the CTs (installed post P283) has not been provided by the LDSO, the outgoing MOA needs a means to communicate this omission to the incoming MOA. In this scenario, the value of "Y" is obviously inappropriate. As such, where Commissioning information related to CTs (installed post P283) is missing then the value of "N" should be populated within the "J02219" data item.

The value of "N" within the "J02219" data item is therefore used to signify where Commissioning information is omitted both in relation to; legacy Metering Equipment (which should not be considered a defect to the Commissioning process) and for Metering Equipment installed post P283.

As such, where the D0383 dataflow is transferred as part of the COA process, and the "J02219" data item is set to "N", the D0384 dataflow must be used to indicate the reason for the omission of CT related Commissioning information.

Where missing CT Commissioning information is associated with legacy Metering Equipment, the "J2233- measurement transformer Commissioning complete" data item (within data group "00M" of the D0384) should be set to "T".

The below table provides an example of the population of data groups; "96L" (feeder information) within the D0383 and "00M" (MPAN core) within the D0384.

[D0383 "96L" feeder information.](#)

Feeder ID	FEED1
Feeder Status	A
Measurement Transformers at defined Metering Point.	T
Number of Phases	3
CT Commissioning information available	N
VT Commissioning information available	None installed
Meter Commissioning information available	N

D0384 "00M"

MPAN Core	1234567890000
Measurement Transformer Commissioning completed	T
MOA Commissioning completed	F
Overall Accuracy of Meter System within BSC Code of Practice limits	F

The above configuration of data flows signifies that the Metering System is comprised of:

- CTs; installed and registered before the implementation of P283 for which some, or all of the Commissioning information related to the CTs is unavailable.
- A Meter; installed and registered after the implementation of P283 for which the Commissioning information is unavailable.

In the above scenario, a defect reason (within data group "01M" of the D0384 dataflow) would only be provided in relation to the Meter.

If the CTs were installed and registered post implementation of P283, then the "J2233- Measurement Transformer Commissioning completed" data item would be populated as "F." This would indicate to the incoming MOA that the omission of Commissioning information related to the CTs is to be treated as a defect to the Commissioning process and escalated to the Supplier.

Where VTs are comprised within the Metering System, VT related Commissioning information should be recorded and transferred according to the same rules detailed in relation to CT related Commissioning information.

The incoming MOA should notify the Supplier as to the Commissioning status of the Metering System, via the D0384 dataflow, as previously detailed.

Where the incoming MOA receives a D0383 (as part of the COA process) indicating that Commissioning information (related to any of the Metering Equipment installed within the Metering System) is missing, a corresponding D0384 dataflow should be received in all cases.

Appendix A - Example Data Flows

New Connection (no defect/omission)

D0383

Sender: LDSO

Recipient: MOA

Timescale: Within five working days of complete Commissioning of measurement transformers but no later than 21 working days following Energisation of the Metering System.

95L|9900000000001|1|

96L|FEED1|A|T|3|Y|Y|NA|

97L|L1|01/01/2019|R|ELEX|CT100|0.5|5|100/5|2.02||

97L|L3|01/01/2019|R|ELEX|CT101|0.5|5|100/5|2.02||

98L|L1|01/01/2019|R|ELEX|VT100|1|15|11000/110|1.5||

98L|L2|01/01/2019|R|ELEX|VT101|1|15|11000/110|1.5||

98L|L3|01/01/2019|R|ELEX|VT102|1|15|11000/110|1.5||

D0384

Sender: MOA

Recipient: Supplier

Timescale: Within five working days of complete Commissioning of all Metering Equipment comprised within the Metering System.

00M|9900000000001|T|T|T|

[D0383 - Completed dataflow including MOA Commissioning information \(for use within COA process\)](#)

95L|9900000000001|1|

96L|FEED1|A|T|3|Y|Y|Y|

97L|L1|01/01/2019|R|ELEX|CT100|0.5|5|100/5|2.02|4.02|

97L|L3|01/01/2019|R|ELEX|CT101|0.5|5|100/5|2.02|4.02|

98L|L1|01/01/2019|R|ELEX|VT100|1|15|11000/110|1.5|2|

98L|L2|01/01/2019|R|ELEX|VT101|1|15|11000/110|1.5|2|

98L|L3|01/01/2019|R|ELEX|VT102|1|15|11000/110|1.5|2|

99L|01/02/2019|ELEC|M191001234|1|100/5|11000/110|F|

New Connection (defect/omission)

D0383 is not sent from the LDSO to the MOA; insufficient load for Meter Commissioning.

D0384

Sender: MOA

Recipient: LDSO

Timescale: 22WD following Energisation

00M|9900000000002|F|F|F|

01M|02||H|LDSO Commissioning Record not received, please escalate|

D0384 - optional

Neither BSCP514 nor BSCP515 places a requirement on the Supplier to send the D0384 to escalate the reporting of a non receipt of D0383 by the MOA. However, should the Supplier wish to utilise the D0384 for this purpose, the design of the flow allows for the facilitation of this process.

Sender: MOA

Recipient: LDSO

Timescale: Not applicable

00M|9900000000002|F|F|F|

01M|02||H|MOA has not received part 1 Commissioning Record. Please send this to MOA ASAP|

D0384

Sender: MOA

Recipient: LDSO

Timescale: 33WD following Energisation

00M|9900000000002|F|F|F|

01M|02||H|LDSO Commissioning Record not received, please escalate|

01M|03||H|Insufficient load at site to perform meaningful Commissioning tests|

D0384

Sender: Supplier

Recipient: MOA

Timescale: At the earliest opportunity but no later than 65 working days following Energisation

00M|99000000000002|F|F|F|

01M|02||H|Non receipt of D0383 escalated to LDSO. Please send updated D0384 following receipt of D0383|

01M|03||H| Please provide update on sufficient load at the earliest opportunity or in XX weeks|

D0384 - following receipt of D0383 by the MOA from the LDSO

Sender: MOA

Recipient: Supplier

Timescale: At the earliest opportunity but no later than 85 working days following Energisation

00M|99000000000002|T|F|F|

01M|03||H| Site visit completed. Load still insufficient to complete Commissioning tests|

The Supplier and the MOA should continue to progress resolution of the defect within the Commissioning process via the D0384 until all Metering Equipment comprised within the Metering System have been Commissioned.

Changes to items of Metering Equipment comprised within a Metering System

Commissioning information is available for all items of Metering Equipment.

Sender: LDSO

Recipient: MOA

Timescale: At the earliest opportunity following the change to the Metering Equipment

95L|9900000000003|1|

96L|FEED1|A|T|3|Y|None Installed|NA|

97L|L1|01/01/2019|R|ELEX|CT200|0.5|5|100/5|2.02||

97L|L2|01/12/2019|R|ELEX|CT300|0.5|5|100/5|2.02||

97L|L3|01/01/2019|R|ELEX|CT202|0.5|5|100/5|2.02||

Following receipt of a D0383 containing updated Commissioning information, the MOA should update its own records. This will ensure that the MOA is able to send an accurate and up to date D0383 following a COA.

Commissioning information is unavailable for items of Metering Equipment registered prior to the implementation of P283.

Sender: LDSO

Recipient: MOA

Timescale: At the earliest opportunity following the change to the Metering Equipment

95L|9900000000004|1|

96L|FEED1|A|T|3|N|None Installed|NA|

97L|L2|01/12/2019|R|ELEX|CT300|0.5|5|100/5|2.02||

Suspect data contained within D0383 received from LDSO

D0383

Sender: LDSO

Recipient: MOA

Timescale: At the earliest opportunity following the change to the Metering Equipment

95L|9900000000005|1|

96L|FEED1|A|T|3|Y|Y|NA|

97L|L1|01/12/2019|R|ELEX|CT300|0.5|5|100/5|2.02||

98L|L1|01/01/2019|R|ELEX|VT200|1|15|11000/110|1.5||

98L|L2|01/01/2019|R|ELEX|VT201|1|15|11000/110|1.5||

98L|L3|01/01/2019|R|ELEX|VT202|1|15|1100/110|1.5||

The Commissioning data provided in the above example dataflow could be considered suspect as:

- The Commissioning information provided indicates that only 1 CT is installed
- The VT ratio recorded against the VT installed on L3 appears to have been incorrectly populated.

Should the MOA have a valid reason for doubting the accuracy of information received within the D0383, it should notify the Supplier via the D0384.

D0384

Sender: MOA

Recipient: LDSO

Timescale: At the earliest opportunity following receipt of D0383.

00M|9900000000005|F|F|F|

01M|05||H|D0383 from LDSO received following change to CT. Commissioning information received for only 1 CT. VT ratio for L3 given as 1100/110. VT ratio for other VTs given as 11000/110.|

Resolution of the defect should be progressed (via the resolution process detailed under the New Connection section) until the MOA receives an accurate D0383 or the accuracy of the initial D0383 is confirmed by the LDSO.

Change of Agent

Commissioning information available for all items of Metering Equipment

D0383

Sender: Outgoing MOA

Recipient: Incoming MOA

Timescale: At the earliest opportunity following transmission of D0268 from the outgoing MOA to the incoming MOA

95L|9900000000006|1|

96L|FEED1|A|T|3|Y|None Installed|Y|Y|

97L|L1|01/01/2019|R|ELEX|CT400|0.5|5|100/5|2.02|4.02|

97L|L2|01/01/2019|R|ELEX|CT401|0.5|5|100/5|2.02|4.02|

97L|L3|01/01/2019|R|ELEX|CT402|0.5|5|100/5|2.02|4.02|

99L|01/02/2019|ELEC|M192001234|1|100/5|11000/110|F|

D0384

Sender: Incoming MOA

Recipient: Supplier

Timescale: At the earliest opportunity following receipt of D0383 from previous MOA

00M|9900000000006|T|T|T|

Change of Agent - Commissioning information unavailable for all items of Metering Equipment

D0384

Sender: Outgoing MOA

Recipient: Incoming MOA

Timescale: At the earliest opportunity following transmission of D0268 from the outgoing MOA to the incoming MOA

00M|99000000000007|F|F|F|

01M|02||H|D0383 not received from LDSO. Unable to complete meaningful Commissioning tests|

D0384

Sender: Incoming MOA

Recipient: Supplier

Timescale: At the earliest opportunity following transmission of D0268 from the incoming MOA to Supplier

00M|99000000000007|F|F|F|

01M|02||H|Previous MOA did not receive D0383 from LDSO. Please escalate to LDSO|

Change of Agent - Commissioning information available for some items of Metering Equipment.

D0383

Sender: Outgoing MOA

Recipient: Incoming MOA

Timescale: At the earliest opportunity following transmission of D0268 from the outgoing MOA to the incoming MOA

95L|9900000000008|1|

96L|FEED1|A|T|3|N|None Installed|Y|

99L|01/01/2019|ELEC|M193001234|1|100/5||F|

D0384

Sender: Outgoing MOA

Recipient: Incoming MOA

Timescale: At the same time as transmission of D0383.

00M|9900000000008|F|T|F|

01M|02||L|D0383 not received from LDSO. Primary testing carried out by MOA|

D0384

Sender: Incoming MOA

Recipient: Supplier

Timescale: At the earliest opportunity following receipt of D0384 from the previous MOA.

00M|9900000000008|F|T|F|

01M|02||L| Previous MOA did not receive D0383 from LDSO. Primary testing carried out by previous MOA. Please escalate to LDSO|

Change of Agent - Metering Equipment registered prior to the implementation of P283.

D0383

Sender: Outgoing MOA

Recipient: Incoming MOA

Timescale: At the earliest opportunity following transmission of D0268 from the outgoing MOA to the incoming MOA

95L|9900000000009|1|

96L|FEED1|A|T|3|N|N|Y|

99L|01/01/2019|ELEC|M194001234|1|100/5|11000/110|F|

D0384

Sender: Incoming MOA

Recipient: Supplier

Timescale: At the earliest opportunity following receipt of D0383 from previous MOA

00M|9900000000009|T|T|T|

Appendix B - High level process map of the transfer of Commissioning information.

Please see the related [Microsoft Excel document](#) on the ELEXON website.

Appendix C - Rejection to a request for a D0215 via the D0382 dataflow.

The D0215 dataflow is used by the LDSO to transfer site technical details to the MOA (where requested to do so) via the D0170¹⁵. Whilst the D0215 is intended to be sent primarily as part of the New Connection or Change of Measurement Class process, an MOA may request a D0215 from the LDSO at any time after the effective date of its appointment¹⁶. The D0170 is a multi-purpose dataflow that is used as a means for several industry participants to request differing information dependent on the sender, recipient, and population of specific data items within the dataflow.

The purpose of a specific instance of a D0170 is communicated via the population of data item "J0007 - Requested Action Code". Each action code relates to a specific reason for the transmission of the D0170.

The D0170 should be considered as a request for site technical details where the below criteria is met:

Sender	Recipient	J0007
MOA	LDSO	"21" (provide site technical details)

Following receipt of a request for site technical details, the LDSO is required to respond with five working days.

Where measurement transformers are included within the items of Metering Equipment comprised within a Metering System, the data contained within the D0215 is of particular value to the MOA. The D0215 details the proposed ratio(s), rating, and class of the measurement transformers to be installed within the Metering System.

The MOA can use the data provided within the D0215 as a means to confirm its own technical requirements for the Meter installation. It is possible; where the MOA is unable to physically access the measurement transformers on site and Commissioning has not been completed; that the MOA will install and program the Meter based on the data provided in the D0215. If this data was to be incorrect (and a defect or omission had delayed the Commissioning of the Metering Equipment) the Meter configuration may not align with the measurement transformers. This could potentially lead to inaccurate metered data being submitted into Settlement.

In certain instances, where measurement transformers are installed, the LDSO is unable to provide accurate information within the D0215. Following the

¹⁵ Request for Metering System Related Details

¹⁶ BSCP514, footnote 12 states: *If required, and at any time after the effective date of the MOA's appointment (and only for MSIDs first registered after 6 November 2008), the MOA may request Site Technical Details by sending a D0170 'Request for Metering System Related Details' to the LDSO. The LDSO shall respond within 5 WD of such requests by sending a D0215 'Provision of Site Technical Details' or D0382 'Rejection Response for Request to LDSO for Site Technical Details' either by electronic means or by another method, as agreed with the MOA. The MOA shall determine any appropriate course of action within 2 WD of receiving this information.*

The following section provides a high level explanation of each reason code within the valid set.

[Measurement transformers installed pre 6 November 2008](#)

Where required, an MOA may request site technical details from the LDSO at any time following the effective date of its appointment (as referenced in footnote 15 of this document). The exception to this (referenced in the same footnote), occurs where a Metering System was registered prior to November 6 2008. Should the LDSO receive a D0170 request related to such a Metering System, the LDSO may use this code to indicate to the MOA, that the registration date of the Metering System pre-dates the requirement for an LDSO to provide a D0215 on request.

[Measurement transformers not owned by DNO and are unlikely to ever be adopted into DNO ownership.](#)

As detailed previously, where measurement transformers are owned by a non-BSC party, the Registrant (via its appointed MOA) is responsible for the Commissioning of all Metering Equipment comprised within the Metering System. The D0382 dataflow provides a means for the LDSO to inform the MOA of the ownership status of the measurement transformers early within the registration process. This affords the Registrant, and the MOA, extra time to make arrangements to complete Commissioning.

In some instances where measurement transformers are owned by a non-BSC party, the measurement transformers are unlikely to ever be adopted into ownership by the LDSO. Instances of this may be; where an end customer has opted to take ownership of their own measurement transformers, or where measurement transformers are installed within a Building Network Operators (BNO) network.

This code indicates to the MOA, that ownership is unlikely to transfer to the LDSO following energisation of the Metering System. As such, the MOA is likely to be responsible for Commissioning for the lifetime of the Metering Equipment comprised within the Metering System.

[Measurement transformers not DNO owned and not yet adopted into DNO ownership.](#)

In some instances where the measurement transformers are owned by a non-BSC Party, ownership is likely to transfer to the LDSO. For the avoidance of doubt, where measurement transformers are adopted (ownership transferred), the adopting party will also become responsible for the Commissioning requirements (as detailed within CoP4) of the Metering Equipment. Measurement transformers are primarily adopted by the LDSO, in instances where they have been installed by an Independent Connections Provider (ICP).

Where Commissioning is undertaken by the ICP as opposed to the MOA, the LDSO may receive Commissioning records from the ICP as part of the adoption process. Some LDSOs may have made agreements with MOAs to transfer the Commissioning information related to the measurement transformers following the adoption process.

In most cases an MOA will hold no commercial relationship with the ICP, whereas the LDSO will hold a commercial relationship with the ICP. This code enables a means for an MOA to be notified that the measurement transformers are to be adopted.

[DNO not relevant network operator for Metering Point](#)

In the instance that a D0170 is sent erroneously to an LDSO (in relation to a Metering System) for which it is not the registered LDSO, then this code should be used.

[Measurement transformer ratio\(s\) unknown](#)

Prior to the implementation of P283, the MOA had full responsibility (under CoP4) for the Commissioning of all Metering Equipment comprised within the Metering System.

In practice, the measurement transformers were often Commissioned by the LDSO. Given no requirement was held specifically against the LDSO for the production or transfer of a Commissioning record, Commissioning information for those measurement transformers is often found to be missing or suspect.

Similar to the process described previously i(n relation to Metering Equipment installed and registered prior the implementation of P283), this code should be used where site technical details related to existing (pre-P283) measurement transformers is unknown.

This enables a means for the MOA to receive a positive notification that the requested site technical details are missing.

Further Information

For more information please contact the **BSC Service Desk** at bscservicedesk@cgi.com or call **0370 010 6950**.

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