B2B PROCEDURE
ONE WAY NOTIFICATION PROCESS

PREPARED BY:	AEMO Markets
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Approved for distribution and use by:

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VERSION RELEASE HISTORY

Version	Date	Comments
2.0	13/11/2013	Updated version numbers and release date to retain version numbering with other B2B Procedures.
2.1	15/05/2014	Updated version numbers and release date to retain version numbering with other B2B Procedures.
2.2	21/11/2014	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.0	6/3/2017	Updated following: • National Electricity Amendment (Expanding Competition in Metering and Related Services) Rule 2015 No. 12; • National Electricity Amendment (Embedded Networks) Rule 2015 No. 15; and • National Electricity Amendment (Updating the Electricity B2B Framework) Rule 2016 No. 6.
3.1	1/12/2017	Updated for the IEC B2B Errata
3.2	1/02/2019	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.3	10/12/2019	Updated to incorporate the definition of the *RemovedMeterReading* field in the NoticeOfMeteringWorks transaction that was included in B2B Guide v1.3.
3.3.1	1/1/2021	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.4	1/10/2021	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.4.1	1/10/2021	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.5	10/11/2021	Updated to reflect the removal of the MXN transaction and incorporate ServiceOrderID field to PIN transactions.
3.6	10/11/2021	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.6.1	10/11/2021	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.6.2	10/11/2021	Placeholder for v3.6.2
3.7	7/11/2022	Updated version numbers and release date to retain version numbering with other B2B Procedures.
3.8	30/05/2022	Updated to introduce Shared Fuse Notification transaction.
3.9	???	Modification to the PIN and MFIN transactions to support the Accelerating smart meter deployment Rules;

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TABLES

FIGURES

1 INTRODUCTION

1.1 Purpose and Scope

(a) This B2B Procedure: One Way Notification Process is published by AEMO in accordance with clause 7.17.3 of the NER.

(b) It details the processes and data requirements concerning the use of One Way Notifications. It enables Participants to send information to each other regarding:

(i) tariff changes;

(ii) *metering* changes;

(iii) planned interruptions; and

(iv) issuing a notification of a service order to a notified party.

(c) This Procedure has effect only for the purposes set out in the NER. The NER and National Electricity Law prevail over this procedure to the extent of any inconsistency.

1.2 Definitions and Interpretation

(a) The Retail Electricity Market Procedures – Glossary and Framework:

(i) is incorporated into and forms part of this Procedure; and

(ii) should be read with this Procedure.

(b) In the event of any inconsistency between this Procedure and the B2B Procedure Technical Delivery Specification, unless this Procedure provides otherwise, the B2B Procedure Technical Delivery Specification shall prevail to the extent of the inconsistency.

(c) All times (related to the conduct of the work) refer to the local time for the Site (where the work requested is to be carried out). Local time is inclusive of daylight saving time changes.

1.3 Related Documents

Table 1 Related Documents

Title	Location
Retail Electricity Market Procedures – Glossary and Framework	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Glossary-and-Framework
B2B Procedure Technical Delivery Specification	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure Service Order Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure Meter Data Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
B2B Procedure Customer and Site Details Notification Process	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures
Metrology Procedure: Part A	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering
B2B Guide	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Business-to-business-procedures

Title	Location
MSATS procedures CATS Procedure Principles and Obligations	http://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Retail-and-metering/Market-Settlement-and-Transfer-Solutions

1.4 Guidance Notes

(a) This document contains Guidance Notes that provides the reader with a reference point where an obligation for services is provided for in the NEM.

(b) A number of timing requirements that represent common industry practice have also been included. These timings are not associated with the communication of B2B transactions, do not have a head of power and are not enforceable.

(c) Guidance Notes are indicated by the use of [Guidance Note #] at the commencement of the clause in this procedure and highlighted in grey.

(d) The table below lists the document or documents for reference.

Table 2 Guidance Notes

Reference	Document Name
[Guidance Note 1]	This is an accepted or common industry practice that does not reference a specific legal or jurisdictional requirement
[Guidance Note 2]	National Energy Retail Rules (NERR)
[Guidance Note 3]	Service Level Procedure Metering Data Provider Services
[Guidance Note 4]	National Electricity Rules (NER)
[Guidance Note 5]	Essential Services Commission (ESC) Electricity Distribution Code (Victoria)
[Guidance Note 6]	Service Level Procedure Metering Provider Services
[Guidance Note 7]	Victorian Electricity Distributors Service & Installation Rules
[Guidance Note 8]	SA Power Networks Service & Installation Rules
[Guidance Note 9]	Electricity Distribution Network Code (Queensland)
[Guidance Note 10]	Metrology Procedure – Part A and Part B
[Guidance Note 11]	Electricity Distribution Code (South Australia)
[Guidance Note 12]	MSATS Procedures: CATS Procedure Principles and Obligations

2 BUSINESS PROCESS

2.1 One Way Notification Types

(a) The One Way Notification process enables Participants to send information or messages to other Participants in a single transaction for one or more *NMI*s via CSV or XML.

2.1.1 Notification with CSV Payload

(a) Network Tariff Notification (NTN) – The Initiator may use this notification to inform a Recipient of a proposed Network Tariff change.

2.1.2 Transactions using XML

(b) PlannedInteruptionNotification – The Initiator may use this transaction to inform a Recipient of a planned interruption to supply at a site.

(c) MeterFaultAndIssueNotification – The Initiator may use this transaction to send information relating to a meter fault or issue to a Recipient. This includes *meter* faults and *meters* that require changes due to the *meter* not meeting Metrology requirements. The transaction includes optional fields to allow a non-regulated Metering Provider to propose the installation/replacement timing for the affected meters.

(d) NoticeOfMeteringWorks – The Initiator may use this transaction to inform a Recipient of the completion of *meter* works (including *Network Devices*) at a Site.

(e) NotifiedParty – The Initiator may use this transaction for notifications of service order requests and responses to and from Notified Parties. For clarification on the use of this transaction, please refer to the B2B Procedure Service Order Process, Technical Delivery Specification and the B2B Guide.

(f) SharedFuseNotification – The Initiator may use this transaction to inform a Recipient of any new or any changes to existing Shared Fuse Arrangements for a Connection Point.

2.2 Acknowledging One Way Notifications

(a) Upon receipt of any One Way Notification, a Recipient must return a *BusinessReceipt* to confirm the receipt of that One Way Notification.

(b) The Recipient must then send a *BusinessAcceptance/Rejection* to the Initiator as follows:

(i) A *BusinessAcceptance/Rejection* with *Status* of “Accept” is to be used to indicate acceptance of the B2B Transaction, including the format and content of the Business Document and that the entire file has been accepted.

(ii) A *BusinessAcceptance/Rejection* with *Status* of “Reject” is to be used to indicate rejection of the B2B Transaction, including the format of the Business Document and the business content.

(iii) If the file format is invalid, the Initiator must resolve the problem and send a new Business Document if appropriate.

(iv) See section 5 for *BusinessAcceptance/Rejection* format.

3 PROCESS DIAGRAMS AND TIMING REQUIREMENTS

(a) The transactions associated with this overall Procedure and the process and timing points are the same for each message type.

(b) The below process and timing points only applies for the NotifiedParty transaction where the Initiator has elected to manage notifications to Notified Parties separately i.e. the *NotifiedPartyID* is not populated in the related ServiceOrderRequest.

(c) If the NotifiedParty transaction is triggered by including the *NotifiedPartyID* in the ServiceOrderRequest, refer to the B2B Technical Delivery Specification and B2B Service Order Procedure for process and timings.

3.1 All Transactions

Figure 1: Process and timing points for One Way Notifications

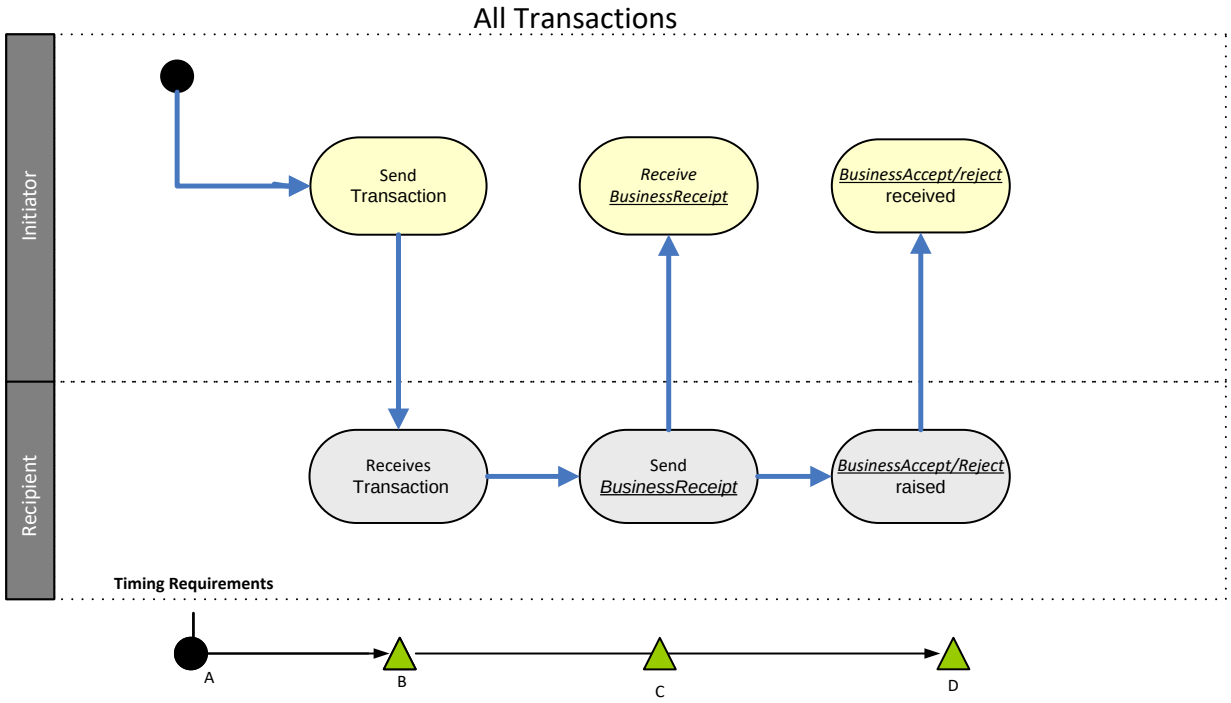

Table 3 Description of timing points A to D as shown in Figure 1: .

Timing Point	Definition
A	This is the point when the Initiator determines they need to initiate a notification for a *connection point* or a set of *connection points*.
B	This is the point when the Initiator sends the relevant OneWayNotification transaction for a *NMI* or a set of *NMI*s to the Recipient.
C	This is the point when the Recipient sends the *BusinessReceipt* to the Initiator.
D	This is the point when the Recipient sends the *BusinessAcceptance/Rejection* to the Initiator.

(a) When using these transactions they must be sent to enable affected parties to meet relevant regulatory obligations.

(b) [Guidance Note 2] PlannedInterruptionNotification must be sent at least 4 business days before the date of the expected interruption or as per customer consent in accordance with the Retail Rules.

(c) [Guidance Note 6] NoticeOfMeteringWorks must be sent within 2 business days of the work being completed.

(d) [Guidance Note 12] SharedFuseNotification must be sent within 5 business days of the Shared Fuse Arrangement of a connection point being determined or changed.

4 TRANSACTIONS

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

4.1 Notification with CSV Payloads

4.1.1 Notification Details

(a) There is a pre-defined *CSVNotificationDetail* for the following message name:

(i) Network Tariff Notification (NTN)

4.1.2 Header Data

(a) The OneWayNotification transaction must only contain a single *CSVNotificationDetail* payload.

(b) Participants must ensure that the OneWayNotification conforms with the usage, format and definitional rules detailed in the Table 4:

Table 4 OneWayNotification field values

Field	Format	Use	Definition
InitiatorID	VarChar(10)	M	Participant ID that initiates the OWNP transaction.
RecipientID	VarChar(10)	M	Participant ID to whom the data is being provided.
TransactionGroup	VarChar(25)	M	The OWNP (OneWayNotificationPayload) is provided by the initiating participant. This indicates the type of Business Document.
Priority	Enumerated Value	M	Priority value for One Way Notification is “Low”. Refer to B2B Technical Delivery Specification.
CSVNotificationDetail	CSVDATA	M/N	Contains embedded data for a OneWayNotification. Refer to 4.1.3 for details.

4.1.3 Network Tariff Notification

(a) The Network Tariff Notification is defined as;

(i) Message Type – OneWayNotification

(ii) Message Name - NTN

(b) The Initiator should use the allowable values provided where these are applicable to the REASONFORCHANGE and only use 'Other' where none of the standard texts apply.

Table 5 Network Tariff Notification CSV field values

Column	Field	Format	Use	Definition
Column1	RECORDINDICATOR	CHAR(1)	M	Indicates the type of record, "I" for information which is the column headings for the *CSVNotificationDetail* data, and "D" which is the data for the matching heading.
Column2	RECORDNUMBER	CHAR(5)	M	Unique record identifier containing an incrementing row number for each record in the *CSVNotificationDetail*.
Column3	MESSAGENAME	VARCHAR(3)	M	The Message Name for Network_Tariff_Notification, is always "NTN".
Column4	VERSION	CHAR(1)	M	Identifies the version of the *CSVNotificationDetail* content. For NTN this is "2".
Column5	NMI	CHAR(10)	M	*NMI* where the network tariff change is proposed to occur.
Column6	NMICHECKSUM	CHAR(1)	M	*NMI* Checksum for the *NMI*.
Column7	METERSERIALNUMBER	VARCHAR(12)	M	Meter Serial ID.
Column8	NMISUFFIX	CHAR(2)	M	As defined in the National Metering Identifier Procedure E.g. "11","E1", "B1", "Q1", "K1".
Column9	NTPROPOSEDDATE	DATE(8)	M	The proposed date of the network tariff change by the Initiator. Format: YYYYMMDD
Column10	NOTICEENDDATE	DATE(8)	R	The latest date the Initiator can effect a network tariff change without initiating a new Network Tariff Notification. Where application of this procedure is mandatory this date must be provided. Format: YYYYMMDD
Column11	PROPOSEDNTC	VARCHAR(10)	M	The new network tariff code being proposed for that NMISUFFIX/Register.
Column 12	REASONFORCHANGE	VARCHAR(50)	M	The reason for network tariff change. Allowable values: • No Change • DNSP Review • Change of NMI Classification • Retailer/MC Meter Roll Out • Regulator Review • Cust Request • Other
Column13	NOTES	VARCHAR (240)	M/O	Free text. Mandatory when REASONFORCHANGE 'Other' is used.

(c) For each *NMI* included in a NTN, the Initiator must create individual data (D) records for all network tariffs that will be applicable to the *NMI* post the network tariff change in the *CSVNotificationDetail* payload, whether the network tariff is changing or not.

(d) Example of I & D indicator records for NetworkTariffNotification:

I,RECORDNUMBER,MESSAGENAME,VERSION,NMI,NMICHECKSUM,METERSERIALNUMBER,NMISUFFIX,NTPROPOSEDDATE,NOTICEENDDATE,PROPOSEDNTC,REASONFORCHANGE

D,1,NTN,2,1234567890,1,87654,E1,20171201,20171220,B101,DNSP Review

D,2,NTN,2,1234567890,1,87654,E2,20171201,20171220,B102,DNSP Review

D,3,NTN,2,1234567890,1,87654,B1,20171201,20171220,NE113,No Change

4.2 Transactions with aseXML

4.2.1 Transaction Details

(a) The following transactions use aseXML:

(i) PlannedInterruptionNotification

(ii) MeterFaultAndIssueNotification

(iii) NoticeofMeteringWorksNotification

(iv) NotifiedParty

(v) SharedFuseNotification

4.2.2 PlannedInterruptionNotification Data

(a) The Initiator should use the allowable values provided where these are applicable to the *REASONFORINTER* and only use 'Other' where none of the standard texts apply.

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

Table 6 PlannedInterruptionNotification field values

Field	Format	Use	Definition
NMI	Char(10)	M	*NMI* where the planned interruption to *supply* is proposed to occur.
NMIChecksum	Char(1)	O	*NMI* Checksum for the NMI.
StartDate	DATE	M	The proposed start date of the planned interruption to *supply* by the Initiator.
StartTime	TIME	M	The proposed start time of the planned interruption to *supply* by the Initiator.
EndDate	DATE	M/O	Mandatory for an interruption window that is greater than 1 day, Optional for a single calendar day interruption window. This is used where the Initiator wants to advise the Recipient that they have a program of works which may go over an extended period.
Duration	VARCHAR(5)	M	The duration of the planned interruption to *supply* for that NMI. Format: HH:MM
ReasonForInter	VARCHAR(50)	M	The reason for planned interruption. Allowed values: • Meter Exchange - Individual • Meter Exchange - Rollout • Meter Replacement - Family Maintenance • Meter Test • Meter Fault Investigation • Distribution Works (Note – when issuing PINs for 'LMRP One In All IN' outages, use This Reasone Code to supress Retailer outage notices) • Meter Installation - Additional • Install Controlled Load • Remove Meter • Move Meter • Meter Reconfiguration • Other
Notes	VARCHAR (240)	M/O	Free text. Mandatory when *ReasonForInter* 'Other' is used.
ServiceOrderID	VARCHAR (15)	R	A defined reference, used for reference and tracking. Format must exactly match that used in the ServiceOrderRequest (including leading or trailing zeros and spaces).

4.2.3 MeterFaultAndIssueNotification Data

(a) The Initiator should use the allowable values provided where these are applicable to the *REASONFORNOTICE* and only use other where none of the standard texts apply.

(b) [Guidance Note 1 and Guidance Note 4] The Initiator may use this notification to notify the Recipient of a *metering installation* malfunction.

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

Table 7 MeterFaultAndIssueNotification field values

Field	Format	Use	Definition
NMI	CHAR(10)	M	*NMI* where the *meter* fault or issue has occurred.
NMIChecksum	CHAR(1)	O	*NMI* Checksum for the *NMI.*
Date	DATE	M	The date of the *meter* fault or issue was identified by the Initiator.
StartDate	DATE	O/M	Can be used by the Initiator to inform the recipient of an intended exchange date if the Initiator is intending to offer an meter exchange service. Mandatory - When ReasonforNotice is ' One In All In' this field indicates the start date for the– One In All In scheduled interruption.
StartTime	TIME	O/M	Can be used by the Initiator to inform the recipient of the intended exchange time window if the Initiator is intending to offer an meter exchange service. Mandatory - When ReasonforNotice is 'One In All In' this field indicates the start time for the – One In All In scheduled interruption.
EndDate	DATE	O	Can be used by the Initiator to inform the recipient of the end of the proposes exchange window if the Initiator is intending to offer an meter exchange service. When ReasonforNotice is 'LRMP - One In All In' this field indicates the end date for the One In All In scheduled interruption.
Duration	VARCHAR(5)	O/M	The duration of the Meter Exchange for that NMI. Format: HH:MM Mandatory - When ReasonforNotice is 'One In All In' this field indicates the duration for the One In All In scheduled interruption for all impacted NMIs.
SupplyOn	YESNO	M	An indicator as to whether supply is available at the Site. Allowed values: • Yes • No
SupplyOff	CHAR (40)	M/N	An indicator to advise what method was used to de-energise the site. Allowed values: • Remove Fuse • Remote • Local Meter Disconnection • Pillar-Box Pit Or Pole-Top Mandatory when SUPPLYON value is No.
MeterSerial Number	VARCHAR (12)	O	Meter Serial ID. This field repeats to allow the reporting of multiple Meters.

Field	Format	Use	Definition
ReasonForNotice	VARCHAR(50)	M	The reason for *meter* fault or issue. Allowed values: • Meter Family Failure (Used when a *meter* family has been determined to no longer meet rule requirements/Australian Standards and must be replaced.) • Accuracy Failure (Used when a *meter* has been determined to be inaccurate and requires replacement.) • Timeswitch/Controlled Load Failure (Used when a timeswitch has failed and a Controlled Load is required.) • Contactor Failure (Used when a load contactor has failed.) • No Display (Used when a *meters* display is not operating correctly and the *meter* requires replacing.) • Communication Failure (The MP/MDP can't communicate with a remotely read *meter*.) • Meter Verification (Used where the DNSP has opened and resealed the *meter* seals and the Recipient may need to check the seals.) • Malfunction (Used when the *meter* has malfunctioned and must be replaced.) • Area Event (Used when an area has been affected by an event such as HV injection, fire, flood and the *meter* is likely to have failed.) • Metrology Threshold Breach (Used when a customers' consumption has breached a jurisdictional or *meter* capacity level.) • Meter Bypassed (Used where the *meter* has been bypassed enabling customers to remain on supply.) • Physical Damage (Used where the *meter* has been physically damaged and no longer functioning.) • Theft/Tampering (Used where theft of consumption has been identified and suspected tampering of *meter*.) • One In All In (Used by Network to advise of scheduled One In~~N~~ All in outage) • Other
Notes	VARCHAR (240)	M/O	Free text. Mandatory when *ReasonForNotice* Other is used. Where 'One In All In' is used, the sender should also populate the notes with the Coordinated Interruption ID (Job Number#meters) and initiating MC Participant ID in a concatenated form: Eg nnnnnnnnnn-nn-#MC# Note: Should an interruption need to rescheduled, a new MFIN is to be sent out with the same Coordinated Interruption ID as the original MFIN

4.2.4 NoticeOfMeteringWorks Transaction Data

(a) This transaction is designed to capture information required by the DNSP or other parties by agreement, from the field technician about the equipment added/removed on site.

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

Table 8 NoticeOfMeteringWorks field values

Field	Format	Use	Definition
NomwID	VARCHAR(12)	M	Initiator defined reference, used for reference and tracking. Must be a new (unused) number, unique for the Initiator.
NMI	CHAR(10)	M	*NMI* where the *metering* work has occurred.
NMIChecksum	CHAR(1)	O	*NMI* Checksum for the *NMI*.
WorkType	VARCHAR(50)	M	The type of *metering* work completed. Allowed values: • Exchange Equipment (Work where an existing equipment is replaced by another equipment.) • Install Equipment (Work where an additional or new equipment is installed and existing *meters* are not removed. Includes new sites.) • Remove Equipment (Work where an existing equipment is removed and no new equipment is installed. May or may not result in LNSP making a *NMI* extinct.) • Relocate (Work where the *metering installation* physically changes location.)
FieldWorkDateTime	DATETIME	M	The date and time of when the field work was completed.
CustomerClassificationCode	VARCHAR(15)	M	Describes the type of customer as per the NERR of the *metering installation*. Allowed values: • Residential • Business

Field	Format	Use	Definition
EnergisationStatus	VARCHAR (50)	M	Describes the energisation status of the *metering installation* at the completion of the field work. Allowed values: • Active *(Metering installation* is energised.) • Not Connected *(Metering installation is not connected to the connection point.)* • Deenergised Before Meter (*Metering installation* is energised up to an isolation point prior to the *meter*.*)* • Deenergised At Meter (*Metering installation* is energised up to the *meter.)* • Deenergised After Meter (*Metering installation is energised. De-energisation is beyond the meter*.*)*
PrimaryVoltage	VARCHAR(8)	M	Describes the *network* primary *voltage* the *metering installation* is connected to. Allowed values: • 230V • 400V • 11KV • 22KV • 33KV • 66KV • 132KV • Other HV
Latitude	NUMERIC (s2.7)	R	The angular measurement North or South of the equator in decimal degrees (to 7 decimal places). Angles South of the equator will be represented as negative values. E.g. -37.8886755
Longitude	NUMERIC (s3.7)	R	The angular measurement East or West of the prime meridian in decimal degrees (to 7 decimal places). Angles East of the Prime Meridian (e.g. Australia) will be represented as positive values. E.g. +145.1410361
ParticipantID	VARCHAR(10)	M	The Participant ID of the Metering Provider (MPB) the work is performed for.
TotalInstalledMeters	NUM(2)	M	Number of new *meters* installed at the site.
MeterSerialNumber	VARCHAR(12)	M/N	Meter Serial ID This field repeats if more than one *meter* has been installed at the completion of the field work. This field is not required if a *meter* has not been installed.

Field	Format	Use	Definition
SupplyPhase	VARCHAR(20)	M/N	Describes the number of phases connected to the *meter*. Allowed values: • 1-Phase • 2-Phase • 3-Phase • Other Multi-Phase This field repeats for each *MeterSerialNumber*. This field is not required if a *meter* has not been installed.
GeneralSupply	YESNO	M/N	The *meter* has a register measuring export energy and is not controlled by a network approved equipment. Allowed values: • Yes • No This field repeats for each *MeterSerialNumber*. This field is not required if a *meter* has not been installed.
ControlledLoad	VARCHAR(3)	M/N	The *meter* has a register measuring export energy and is controlled by a network approved equipment configuration to align with the network's 1st controlled load offer. Allowed values: • Yes • No This field repeats for each *MeterSerialNumber*. This field is not required if a *meter* has not been installed.
GenerationType	VARCHAR(5)	M/N	Indicates whether the *meter* is configured to measure the import of *energy*. Allowed values: • Net • Gross • None This field repeats for each *MeterSerialNumber*. This field is not required if a *meter* has not been installed.
TotalInstalledNetwork Devices	NUM(2)	M	Number of new *network devices* installed at the site.
NetworkDeviceNumber	VARCHAR(12)	M/N	Faceplate serial number of the *network device* that has been installed. This field repeats if more than one *network device* has been installed at the completion of the field work. This field is not required if a *network device* has not been installed.

Field	Format	Use	Definition
NetworkDeviceLocation	VARCHAR(14)	M/N	Describes where the *network device* is located in relation to the meter. Allowed values: • Before Meter (*Network device* is electrically connected before the *meter.)* • After Meter (*Network device* is electrically connected after the *meter.)* Mandatory for each *NetworkDeviceNumber* provided. This field repeats if more than one *network device* has been installed at the completion of the field work.
ControlEquipmentNumber	VARCHAR(12)	R/N	Faceplate serial number of the control equipment. If the control equipment is part of a *meter* then this should match the *MeterSerialNumber*. Required unless customer owned. This field repeats if more than one *ControlEquipmentNumber* has been installed at the completion of the field work.
ControlEquipmentType	VARCHAR(25)	R/N	Describes the type of control equipment that has been installed on behalf of the LNSP. Allowed values: • Internal Relay (The load is controlled using a frequency controlled relay located inside the *meter.)* • External Relay (The load is controlled using a frequency controlled relay located outside the *meter.)* • Internal Time Switch (The load is controlled using a time switch located inside the *meter)* • External Time Switch (The load is controlled using a time switch located outside the *meter)* This field repeats if more than one *ControlEquipmentNumber* has been installed at the completion of the field work. Required for each *ControlEquipmentNumber* provided.
ControlChannel	VARCHAR(12)	R/N	Describes key settings of the control equipment. As defined by the network. This field repeats for each *ControlEquipmentNumber*. Required for each *ControlEquipmentNumber* provided.
ControlConnectedMeterNumber	VARCHAR(12)	R/N	Meter Serial ID of the *meter* connected to the control equipment. This field repeats for each *ControlEquipmentNumber*. Required for each *ControlEquipmentNumber* provided if the control equipment is associated with a *meter*.
TransformerNumber	VARCHAR(12)	M/N	Faceplate serial number of the instrument *transformer* that has been installed. This field repeats if more than one *transformer* has been installed at the completion of field work. This field is not required if a *transformer* has not been installed.

Field	Format	Use	Definition
TransformerType	VARCHAR(2)	M/N	Describes the type of instrument *transformer*. Allowed values: • CT (Equipment used to transform current levels.) • VT (Equipment used to transform voltage levels.) This field repeats for each *TransformerNumber*. This field is not required if a *Transformer* has not been installed.
TransformerRatio	VARCHAR(20)	M/N	Describes the instrument *transformer* connected ratio. E.g. 100/10. This field is not required if a *Transformer* has not been installed.
TransformerConnectedMeterNumber	VARCHAR(12)	R	Meter Serial ID of the *meter* connected to the instrument *transformer*. This field repeats for each *TransformerNumber.*
TotalRemovedMeters	NUM(2)	R	Number of existing *meters* removed from the site.
TotalRemovedOther	NUM(2)	R	Number of existing network or other devices removed from the site.
RemovedEquipmentNumber	VARCHAR(12)	M/N	Faceplate serial number of the removed equipment. This field repeats if more than one *meter* or *network device* or other equipment has been removed at the completion of field work. This field is not required when no *meter* has been removed or repurposed or equipment number cannot be identified.
RemovedEquipmentType	VARCHAR(25)	M/N	Describes the type of equipment that was removed. Allowed values: • Basic Meter (A *meter* that is classified as a type 6 meter.) • Interval Meter (A *meter* that is not classified as a type 6 meter.) • Network Device (As per the NER.) • Control Equipment (Equipment used to control the load.) • Instrument Transformer (Equipment used to transform *voltage* or current levels.) This field repeats for each *RemovedEquipmentNumber.* Mandatory for each *RemovedEquipmentNumber* provided. This field is not required when equipment has not been removed.
RemovedRegister	VARCHAR(10)	M/N	Register identifier of the removed basic *meter.* Register reads to be recorded as displayed in the meter. This field may repeat more than once for each *RemovedEquipmentNumber*. Mandatory if the *RemovedEquipmentType* is Basic Meter.

Field	Format	Use	Definition
RemovedMeterReading	VARCHAR(15)	M/N	Register read for the corresponding register. Values must include any leading zeros and trailing zeros as per the physical dial format. Values must be exclusive of *meter* multipliers. This field is mandatory for each *RemovedRegister*. Mandatory if the *RemovedEquipmentType* is Basic Meter or where a Basic Meter is repurposed and left onsite. Reasonable endeavours must be used to take a valid *meter* reading. If the register read could not be obtained then one of the following codes must be provided. • NOREAD041 • NOREAD061 Note, the last three characters of the above codes correspond to the Reason Code defined in the Meter Data File Format Specification NEM12 & NEM13 document and may be referenced to determine the most appropriate code to provide. The recipient must not reject the transaction on the basis of this field when one of the above codes is provided.
Notes	VARCHAR(240)	O	Free text.

4.2.5 NotifiedParty Transaction Data

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

Table 9 NotifiedParty field values

Field	Format	Use	Definition
InitiatorID	VARCHAR(10)	M	Initiator's Participant ID of the ServiceOrderRequest.
SORecipientID	VARCHAR(10)	M	Recipient's Participant ID of the ServiceOrderRequest.
NMI	CHAR(10)	M	*NMI* that the notification relates to.
NMIChecksum	CHAR(1)	O	*NMI* Checksum for the *NMI*.
ServiceOrderID	VARCHAR(15)	M	A defined reference, used for reference and tracking. Format must exactly match that used in the ServiceOrderRequest (including leading or trailing zeros and spaces).
ServiceOrderType	VARCHAR(22)	M	*ServiceOrderType* as specified in the ServiceOrderRequest; the list of codes are specified in the B2B Procedure Service Order Process.
ServiceOrderSubType	VARCHAR(40)	M	*ServiceOrderSubType* as specified in the ServiceOrderRequest; the list of codes are specified in the B2B Procedure Service Order Process.
ScheduledDate	DATE	M	*ScheduledDate* as specified in the ServiceOrderRequest.
ActualDateAndTime	DATETIME	R	*ActualDateAndTime* as specified in the ServiceOrderResponse.
NotificationStatus	VARCHAR(30)	M	Allowed values: • SO Requested • SO Rejected • SO Completion • Accepted by Notified Party • Rejection by Notified Party • Notified Party Stopped
RefTransaction	aseXML	M/N	Copy of the transaction the notification relates to. Depending on the *NotificationStatus* of the notification, the contents must be one of the following: • ServiceOrderRequest • *BusinessAcceptance/Rejection* (sent by the Recipient in response to the ServiceOrderRequest.) • ServiceOrderResponse • *BusinessAcceptance* from Notified Party • *BusinessRejection* from incorrect Notified Party Refer to the B2B Procedure Service Order Process for the transaction data definitions.

4.2.5.1 Usage of *NotificationStatus* and *RefTransaction*

(a) The table below details the usage of *NotificationStatus* value and *RefTransaction* contents in the NotifiedParty transaction. Refer to the B2B Procedure Service Order Process for Participant obligations.

Table 10 *NotificationStatus* and *RefTransaction* field values

Timing Point/Scenario	*NotificationStatus*	*RefTranasction*
1. a Recipient provides a positive *BusinessReceipt* for a ServiceOrderRequest	'SO Requested'	ServiceOrderRequest
2. a Recipient provides a negative *BusinessAcceptance/Rejection* for a ServiceOrderRequest	'SO Rejected'	*BusinessAcceptance/Rejection* (sent by the Recipient in response to the ServiceOrderRequest)
3. a ServiceOrderResponse is sent by the Recipient	'SO Completion'	ServiceOrderResponse
4. a Notified Party has accepted a NotifiedParty transaction (and the Initiator has specified the Notified Party/s in the related ServiceOrderRequest). Note: If managed by the e-Hub, Initiators have the ability to opt-in to receiving this status (off by default). Note: Where the Initiator has elected to manage notifications to Notified Parties separately, this NotifiedParty transaction is not applicable, as the normal acknowledgement patterns will apply (Notified Party will send the negative *BusinessAcceptance/Rejection* to the Initiator).	'Accepted by Notified Party'	*BusinessAcceptance* from Notified Party
5. a Notified Party has rejected a NotifiedParty transaction (and the Initiator has specified the Notified Party/s in the related ServiceOrderRequest). Note: Where the Initiator has elected to manage notifications to Notified Parties separately, this NotifiedParty transaction is not applicable, as the normal acknowledgement patterns will apply (Notified Party will send the negative *BusinessAcceptance/Rejection* to the Initiator).	'Rejection by Notified Party'	*BusinessRejection* from incorrect Notified Party
6. a Notified Party has a stop file in place and the notification is unable to be delivered. Note: Where the Initiator has elected to manage notifications to Notified Parties separately, this NotifiedParty transaction is not applicable, as the normal acknowledgement patterns will apply.	'Notified Party Stopped'	The corresponding *RefTransaction* contents for the notification that was undeliverable.

4.2.6 SharedFuseNotification Data

a) This transaction applies to all jurisdictions except Victoria.

b) The SharedFuseNotification is to allow the Initiator to provide new or amended Shared Fuse Arrangement information relating to a connection point, to the Recipient.

Refer to the Metrology Procedure: Part A for a detailed description of the use of this flag.

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

Table 11 SharedFuseNotification field values

Field	Format	Use	Definition
NMI	CHAR(10)	M	NMI where the Shared Fuse Arrangement has been determined or changed.
NMIChecksum	CHAR(1)	O	NMI Checksum for the NMI.
IdentifiedDate	DATE	M	The date that the current Shared Fuse Arrangement was identified by the Initiator.
SharedIsolationPointFlag	CHAR(1)	M	• Y= Indicates that a Shared Fuse Arrangement is present • N = Indicates that no Shared Fuse Arrangement is present • I = Indicates that the metering installation is isolated independently, but is still part of a Shared Fuse Arrangement

5 BusinessAcceptance/Rejection Transaction Data

Key
M = Mandatory (must be provided in all situations).
R = Required (must be provided if this information is available or has changed).
O = Optional (may be provided and should be used if provided).
N = Not required (not required and may be ignored if provided).

(a) A Participant must ensure that a *BusinessAcceptance/Rejection* transaction has a Status field completed as follows;

Table 12 *BusinessAccept/Reject* Codes for CSV Payload

Field	Format	Use	Definition
Status	Enumeration	M	Allowed values: • Accept • Reject A code to indicate the reason for the rejection. Applicable codes are in section 5.1.

(b) If the Status is not "Accept", a Participant must ensure that the following Event block is provided.

Table 13 Business Reject – Event Block for CSV Payload

Field	Format	Use	Definition
EventCode	NUMERIC(4)	M	A code to indicate acceptance or the reason for the rejection refer Table 15.
KeyInfo	NUMERIC(15)	O/N	If this field is populated with a number, the number is the record number within the *NotificationDetail* that the event occurred. If the field is not populated, the EventCode refers to the aseXML transaction, not a specific line within the data.
Context	EventContext	O/N	The data element in the received Business Document that caused the event. For an error in the *NotificationDetail* (KeyInfo is populated) this will be a copy of the line where the event was found. Where the line is longer than the field size available, the field is to be fully populated starting from the first character of the line.
Explanation	Unlimited Varchar	M/O	An explanation of the event. Mandatory where the business event requires an explanation.

Table 14 *BusinessAcceptance/Rejection* data for XML Payload

Field	Format	Use	Definition
EventCode	NUMERIC(4)	M	A code to indicate acceptance or the reason for the rejection. Refer to section 5.1.
KeyInfo	VARCHAR(15)	M	In response to a NoticeOfMeteringWorks, the *NomwID* of the transaction being accepted or rejected. In response to a NotifiedParty transaction, the *ServiceOrderID* that the notification relates to. In response to a PlannedInterruptionNotification, MeterFaultAndIssueNotification, or SharedFuseNotification the *NMI* of the transaction being accepted or rejected.
Context	EVENT CONTEXT	O	The Data Element in the received Business Document (eg. *MeterSerialNumber*) that causes the Event.
Explanation	UNLIMITED VARCHAR	M/O	An explanation of the event. Must be provided where the Business Event requires an Explanation.

5.1 Applicable events

(a) Participants must use the most relevant Business Event(s). Where multiple *EventCodes* are applicable, these may be provided.

Table 15 One Way Notification - Business Event Details

Business Event	*Explanation* Required	Severity	CSV Payload	PlannedInterruptionNotification	MeterFaultAndIssueNotification	NoticeOfMeteringWorks	NotifiedParty	SharedFuseNotification	Event Code	Relevant Procedure clause or Reference Notes
Accept	No	Information	Y	Y	Y	Y	Y	Y	0	Standard aseXML Code.
Data Missing. Details provided in explanation	Yes	Error	Y	Y	Y	Y	Y	Y	201	Standard aseXML Code. Used where data with a usage of required in the Procedure is missing.
Invalid Data. Details provided in explanation	Yes	Error	Y	Y	Y	Y	N	Y	202	Standard aseXML Code. Covers situations where the data used in individual or combinations of fields is invalid.
Data format is invalid.	Yes	Error	Y	N	N	N	N	N	2003	This event indicates that an error in the payload.
Recipient not responsible for the supplied NMI	No	Error	N	Y	Y	Y	Y	Y	1923	Standard aseXML Code.
Invalid Meter Readings – Removed Meter	Yes	Error	N	N	N	Y	N	N	2008	Covers situations where the data used in individual or combinations of fields is invalid.