



B2B PROCEDURE ONE WAY NOTIFICATION PROCESS

PREPARED BY: AEMO Markets
VERSION: 3.3
EFFECTIVE DATE: 3 February 2020
STATUS: FINAL

Approved for distribution and use by:

APPROVED BY: Information Exchange Committee

SIGNED:

DATE: 10 / 12 / 2019

VERSION RELEASE HISTORY

| Version | Date | Author | Comments |
|---------|------------|--------|--|
| 2.0 | 13/11/2013 | AEMO | Updated version numbers and release date to retain version numbering with other B2B Procedures. |
| 2.1 | 15/05/2014 | AEMO | Updated version numbers and release date to retain version numbering with other B2B Procedures. |
| 2.2 | 21/11/2014 | AEMO | Updated version numbers and release date to retain version numbering with other B2B Procedures. |
| 3.0 | 6/3/2017 | AEMO | Updated following: <ul style="list-style-type: none">• 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 | AEMO | Updated for the IEC B2B Errata |
| 3.2 | 1/02/2019 | AEMO | Updated version numbers and release date to retain version numbering with other B2B Procedures. |
| 3.3 | 10/12/2019 | AEMO | Updated to incorporate the definition of the <i>RemovedMeterReading</i> field in the NoticeOfMeteringWorks transaction that was included in B2B Guide v1.3. |

CONTENTS

| | | |
|----------|--|-----------|
| 1 | INTRODUCTION | 4 |
| 1.1 | Purpose and Scope | 4 |
| 1.2 | Definitions and Interpretation | 4 |
| 1.3 | Related Documents | 4 |
| 1.4 | Guidance Notes | 6 |
| 2 | BUSINESS PROCESS | 7 |
| 2.1 | One Way Notification Types | 7 |
| 2.2 | Acknowledging One Way Notifications | 8 |
| 3 | PROCESS DIAGRAMS AND TIMING REQUIREMENTS | 9 |
| 3.1 | All Transactions | 9 |
| 4 | TRANSACTIONS | 10 |
| 4.1 | Notifications with CSV Payloads | 10 |
| 4.2 | Transactions with aseXML | 14 |
| 5 | BUSINESSACCEPTANCE/REJECTION TRANSACTION DATA | 24 |
| 5.1 | Applicable events | 25 |

TABLES

| | | |
|----------|--|----|
| Table 1 | Related Documents | 4 |
| Table 2 | Guidance Notes | 6 |
| Table 3 | Description of timing points A to D as shown in Figure 1..... | 9 |
| Table 4 | OneWayNotification field values..... | 10 |
| Table 5 | Meter Exchange Notification CSV field values | 11 |
| Table 6 | Network Tariff Notification CSV field values | 12 |
| Table 7 | PlannedInterruptionNotification field values | 14 |
| Table 8 | MeterFaultAndIssueNotification field values | 15 |
| Table 9 | NoticeOfMeteringWorks field values | 17 |
| Table 10 | NotifiedParty field values | 22 |
| Table 11 | <i>NotificationStatus</i> and <i>RefTransaction</i> field values | 23 |
| Table 12 | <i>BusinessAccept/Reject</i> Codes for CSV Payload..... | 24 |
| Table 13 | Business Reject – Event Block for CSV Payload..... | 24 |
| Table 14 | <i>BusinessAcceptance/Rejection</i> data for XML Payload | 24 |
| Table 15 | One Way Notification - Business Event Details..... | 25 |

FIGURES

| | | |
|-----------|--|---|
| Figure 1: | Process and timing <i>points</i> for OneWayNotifications | 9 |
|-----------|--|---|

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 *NMIs* via CSV or XML.

2.1.1 Notifications with CSV Payload

- (a) Meter Exchange Notification (MXN) – The Initiator may use this notification to provide selected information to a Recipient for planned mass *meter* replacements.
- (b) 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

- (a) PlannedInterruptionNotification – The Initiator may use this transaction to inform a Recipient of a planned interruption to supply at a site.
- (b) 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.
- (c) NoticeOfMeteringWorks – The Initiator may use this transaction to inform a Recipient of the completion of *meter* works (including *Network Devices*) at a Site.
- (d) 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.

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

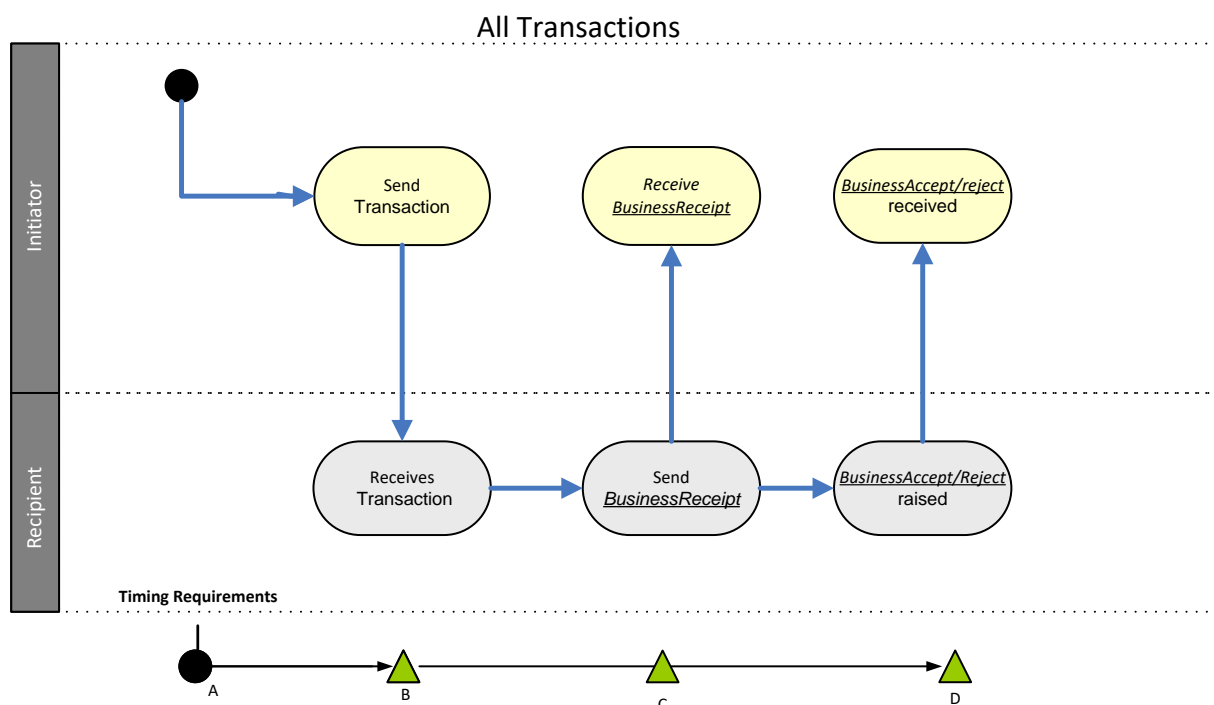


Table 3 Description of timing points A to D as shown in Figure 1: .

| Timing Point | Definition |
|--------------|---|
| A | This is the point when the Initiator determines they need to initiate a notification for a <i>connection point</i> or a set of <i>connection points</i> . |
| B | This is the point when the Initiator sends the relevant <u>OneWayNotification</u> transaction for a <i>NMI</i> or a set of <i>NMIs</i> to the Recipient. |
| C | This is the point when the Recipient sends the <u>BusinessReceipt</u> to the Initiator. |
| D | This is the point when the Recipient sends the <u>BusinessAcceptance/Rejection</u> 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.
- (c) [Guidance Note 6] NoticeOfMeteringWorks must be sent within 2 business days of the work being completed.

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 Notifications with CSV Payloads

4.1.1 Notification Details

(a) There is a pre-defined *CSVNotificationDetail* for each of the following message names;

- (i) Meter Exchange Notification (MXN)
- (ii) 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 |
|------------------------------|------------------|-----|---|
| <i>InitiatorID</i> | VarChar(10) | M | Participant ID that initiates the OWNPN transaction. |
| <i>RecipientID</i> | VarChar(10) | M | Participant ID to whom the data is being provided. |
| <i>TransactionGroup</i> | VarChar(25) | M | The OWNPN (<i>OneWayNotificationPayload</i>) is provided by the initiating participant. This indicates the type of Business Document. |
| <i>Priority</i> | Enumerated Value | M | Priority value for One Way Notification is "Low". Refer to B2B Technical Delivery Specification. |
| <i>CSVNotificationDetail</i> | CSVDATA | M/N | Contains embedded data for a <u>OneWayNotification</u> . Each transaction can only carry one <i>CSVNotificationDetail</i> payload type. Refer to 4.1.3 & 4.1.4 for details. |

4.1.3 Meter Exchange Notification

- (a) The Meter Exchange Notification is defined as;
 - (i) Message Type – OneWayNotification
 - (ii) Message Name – MXN

Table 5 Meter Exchange 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 <i>CSVNotificationDetail</i> data, and "D" which is the data for the matching heading. |
| Column2 | RECORDNUMBER | VARCHAR(5) | M | Unique record identifier containing an incrementing row number for each record in the <i>CSVNotificationDetail</i> . |
| Column3 | MESSAGENAME | CHAR(3) | M | The Message Name for Meter Exchange Notification, it is always "MXN". |
| Column4 | VERSION | CHAR(1) | M | Identifies the version of the <i>CSVNotificationDetail</i> content. For MXN this is "2". |
| Column5 | NMI | CHAR(10) | M | <i>NMI</i> where the <i>meter</i> exchange is planned to occur. |
| Column6 | NMICHECKSUM | CHAR(1) | M | <i>NMI</i> Checksum for the <i>NMI</i> . |
| Column7 | METERSERIALNUMBER | VARCHAR(12) | O/N | Meter Serial ID. Not Required if all current meters and devices are being exchanged. |
| Column8 | NOTBEFOREDATE | DATE(8) | O | The earliest date provided to the customer for the <i>meter</i> exchange. Format: YYYYMMDD |
| Column9 | NOTAFTERDATE | DATE(8) | O | The latest date provided to the customer for the <i>meter</i> exchange. Format: YYYYMMDD |
| Column10 | NOTICEDATE | DATE(8) | O | The date on the notice issued to the customer by the Initiator. Format: YYYYMMDD |
| Column11 | STARTDATE | DATE(8) | O | The proposed start date of the Meter Exchange by the Initiator. Format: YYYYMMDD |
| Column12 | STARTTIME | VARCHAR(4) | O | The time the Meter Exchange is proposed for that <i>NMI</i> . Format: HHMM |
| Column13 | ENDDATE | DATE(8) | O | This can be used where the Initiator wants to advise the Recipient that they have a program of works which may go over an extended period. Format: YYYYMMDD |
| Column14 | DURATION | VARCHAR(5) | O | The duration of the Meter Exchange for that <i>NMI</i> . Format: HH:MM |

- (b) Example of I & D indicator records for MeterExchangeNotification:

I,RECORDNUMBER,MESSAGENAME,VERSION,NMI,NMICHECKSUM,METERSERIALNUMBER,NOTBEFOREDATE,NOTAFTERDATE,NOTICEDATE,STARTDATE,STARTTIME,ENDDATE,DURATION

D,1,MXN,2,1234567890,1,87654,20171201,20171222,20171120,20171213,1030,20171213,01:00

4.1.4 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 6 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 <i>CSVNotificationDetail</i> 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 <i>CSVNotificationDetail</i> . |
| Column3 | MESSAGE NAME | VARCHAR(3) | M | The Message Name for <u>Network Tariff Notification</u> , is always "NTN". |
| Column4 | VERSION | CHAR(1) | M | Identifies the version of the <i>CSVNotificationDetail</i> content. For NTN this is "2". |
| Column5 | NMI | CHAR(10) | M | <i>NMI</i> where the network tariff change is proposed to occur. |
| Column6 | NMICHECKSUM | CHAR(1) | M | <i>NMI</i> Checksum for the <i>NMI</i> . |
| 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: <ul style="list-style-type: none"> • 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) There are four transactions that use aseXML:
- (i) PlannedInterruptionNotification
 - (ii) MeterFaultAndIssueNotification
 - (iii) NoticeofMeteringWorksNotification
 - (iv) NotifiedParty

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).

4.2.2 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.

Table 7 PlannedInterruptionNotification field values

| Field | Format | Use | Definition |
|-----------------------|--------------|-----|---|
| <i>NMI</i> | Char(10) | M | <i>NMI</i> where the planned interruption to <i>supply</i> is proposed to occur. |
| <i>NMIChecksum</i> | Char(1) | N | <i>NMI</i> Checksum for the <i>NMI</i> . |
| <i>StartDate</i> | DATE | M | The proposed start date of the planned interruption to <i>supply</i> by the Initiator. |
| <i>StartTime</i> | TIME | M | The time the planned interruption to <i>supply</i> is proposed for that <i>NMI</i> . |
| <i>EndDate</i> | DATE | O | This can be used where the Initiator wants to advise the Recipient that they have a program of works which may go over an extended period. |
| <i>Duration</i> | VARCHAR(5) | M | The duration of the planned interruption to <i>supply</i> for that <i>NMI</i> . Format: HH:MM |
| <i>ReasonForInter</i> | VARCHAR(50) | O | The reason for planned interruption. Allowed values: <ul style="list-style-type: none"> • Meter Exchange - Individual • Meter Exchange - Rollout • Meter Replacement – Family Maintenance • Meter Test • Meter Fault Investigation • Distribution Works • Other |
| <i>Notes</i> | VARCHAR(240) | M/O | Free text. Mandatory when <i>ReasonForInter</i> 'Other' is used. |

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.

Table 8 MeterFaultAndIssueNotification field values

| Field | Format | Use | Definition |
|---------------------------|--------------|-----|---|
| <i>NMI</i> | CHAR(10) | M | <i>NMI</i> where the <i>meter</i> fault or issue has occurred. |
| <i>NMIChecksum</i> | CHAR(1) | N | <i>NMI</i> Checksum for the <i>NMI</i> . |
| <i>Date</i> | DATE | M | The date of the <i>meter</i> fault or issue was identified by the Initiator. |
| <i>StartDate</i> | DATE | O | 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. |
| <i>StartTime</i> | TIME | O | 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. |
| <i>EndDate</i> | 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. |
| <i>Duration</i> | VARCHAR(5) | O | The duration of the Meter Exchange for that <i>NMI</i> . Format: HH:MM |
| <i>SupplyOn</i> | YESNO | M | An indicator as to whether supply is available at the Site. Allowed values: <ul style="list-style-type: none"> • Yes • No |
| <i>SupplyOff</i> | CHAR (40) | M/N | An indicator to advise what method was used to de-energise the site. Allowed values: <ul style="list-style-type: none"> • Remove Fuse • Remote • Local Meter Disconnection • Pillar-Box Pit Or Pole-Top Mandatory when SUPPLYON value is No. |
| <i>MeterSerial Number</i> | VARCHAR (12) | O | Meter Serial ID. This field repeats to allow the reporting of multiple Meters. |

| Field | Format | Use | Definition |
|------------------------|--------------|-----|--|
| <i>ReasonForNotice</i> | VARCHAR(50) | M | <p>The reason for <i>meter</i> fault or issue.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> • Meter Family Failure (Used when a <i>meter</i> family has been determined to no longer meet rule requirements/Australian Standards and must be replaced.) • Accuracy Failure (Used when a <i>meter</i> 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 <i>meters</i> display is not operating correctly and the <i>meter</i> requires replacing.) • Communication Failure (The MP/MDP can't communicate with a remotely read <i>meter</i>.) • Meter Verification (Used where the DNSP has opened and resealed the <i>meter</i> seals and the Recipient may need to check the seals.) • Malfunction (Used when the <i>meter</i> 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 <i>meter</i> is likely to have failed.) • Metrology Threshold Breach (Used when a customers' consumption has breached a jurisdictional or <i>meter</i> capacity level.) • Meter Bypassed (Used where the <i>meter</i> has been bypassed enabling customers to remain on supply.) • Physical Damage (Used where the <i>meter</i> has been physically damaged and no longer functioning.) • Theft/Tampering (Used where theft of consumption has been identified and suspected tampering of <i>meter</i>.) • Other |
| <i>Notes</i> | VARCHAR(240) | M/O | <p>Free text. Mandatory when <i>ReasonForNotice</i> Other is used.</p> |

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.

Table 9 NoticeOfMeteringWorks field values

| Field | Format | Use | Definition |
|-----------------------------------|--------------|-----|--|
| <i>NomwID</i> | VARCHAR(12) | M | Initiator defined reference, used for reference and tracking. Must be a new (unused) number, unique for the Initiator. |
| <i>NMI</i> | CHAR(10) | M | <i>NMI</i> where the <i>metering</i> work has occurred. |
| <i>NMIChecksum</i> | CHAR(1) | N | <i>NMI</i> Checksum for the <i>NMI</i> . |
| <i>WorkType</i> | VARCHAR(50) | M | The type of <i>metering</i> work completed. Allowed values: <ul style="list-style-type: none"> 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 <i>meters</i> 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 <i>NMI</i> extinct.) Relocate (Work where the <i>metering installation</i> physically changes location.) |
| <i>FieldWorkDateTime</i> | DATETIME | M | The date and time of when the field work was completed. |
| <i>CustomerClassificationCode</i> | VARCHAR(15) | M | Describes the type of customer as per the NERR of the <i>metering installation</i> . Allowed values: <ul style="list-style-type: none"> Residential Business |
| <i>EnergisationStatus</i> | VARCHAR (50) | M | Describes the energisation status of the <i>metering installation</i> at the completion of the field work. Allowed values: <ul style="list-style-type: none"> Active (<i>Metering installation</i> is energised.) Not Connected (<i>Metering installation</i> is not connected to the connection point.) Deenergised Before Meter (<i>Metering installation</i> is energised up to an isolation point prior to the <i>meter</i>.) Deenergised At Meter (<i>Metering installation</i> is energised up to the <i>meter</i>.) Deenergised After Meter (<i>Metering installation</i> is energised. <i>De-energisation</i> is beyond the <i>meter</i>.) |

| Field | Format | Use | Definition |
|-----------------------------|----------------|-----|---|
| <i>PrimaryVoltage</i> | VARCHAR(8) | M | Describes the <i>network</i> primary voltage the <i>metering installation</i> is connected to. Allowed values: <ul style="list-style-type: none"> • 230V • 400V • 11KV • 22KV • 33KV • 66KV • 132KV • Other HV |
| <i>Latitude</i> | 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 |
| <i>Longitude</i> | 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 |
| <i>ParticipantID</i> | VARCHAR(10) | M | The Participant ID of the Metering Provider (MPB) the work is performed for. |
| <i>TotalInstalledMeters</i> | NUM(2) | M | Number of new <i>meters</i> installed at the site. |
| <i>MeterSerialNumber</i> | VARCHAR(12) | M/N | Meter Serial ID This field repeats if more than one <i>meter</i> has been installed at the completion of the field work. This field is not required if a <i>meter</i> has not been installed. |
| <i>SupplyPhase</i> | VARCHAR(20) | M/N | Describes the number of phases connected to the <i>meter</i> . Allowed values: <ul style="list-style-type: none"> • 1-Phase • 2-Phase • 3-Phase • Other Multi-Phase This field repeats for each <i>MeterSerialNumber</i> . This field is not required if a <i>meter</i> has not been installed. |
| <i>GeneralSupply</i> | YESNO | M/N | The <i>meter</i> has a register measuring export energy and is not controlled by a network approved equipment. Allowed values: <ul style="list-style-type: none"> • Yes • No This field repeats for each <i>MeterSerialNumber</i> . This field is not required if a <i>meter</i> has not been installed. |

| Field | Format | Use | Definition |
|--------------------------------------|-------------|-----|---|
| <i>ControlledLoad</i> | VARCHAR(3) | M/N | <p>The <i>meter</i> 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.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> • Yes • No <p>This field repeats for each <i>MeterSerialNumber</i>.</p> <p>This field is not required if a <i>meter</i> has not been installed.</p> |
| <i>GenerationType</i> | VARCHAR(5) | M/N | <p>Indicates whether the <i>meter</i> is configured to measure the import of <i>energy</i>.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> • Net • Gross • None <p>This field repeats for each <i>MeterSerialNumber</i>.</p> <p>This field is not required if a <i>meter</i> has not been installed.</p> |
| <i>TotalInstalledNetwork Devices</i> | NUM(2) | M | Number of new <i>network devices</i> installed at the site. |
| <i>NetworkDeviceNumber</i> | VARCHAR(12) | M/N | <p>Faceplate serial number of the <i>network device</i> that has been installed.</p> <p>This field repeats if more than one <i>network device</i> has been installed at the completion of the field work.</p> <p>This field is not required if a <i>network device</i> has not been installed.</p> |
| <i>NetworkDeviceLocation</i> | VARCHAR(14) | M/N | <p>Describes where the <i>network device</i> is located in relation to the meter.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> • Before Meter (<i>Network device</i> is electrically connected before the <i>meter</i>.) • After Meter (<i>Network device</i> is electrically connected after the <i>meter</i>.) <p>Mandatory for each <i>NetworkDeviceNumber</i> provided.</p> <p>This field repeats if more than one <i>network device</i> has been installed at the completion of the field work.</p> |
| <i>ControlEquipmentNumber</i> | VARCHAR(12) | R/N | <p>Faceplate serial number of the control equipment. If the control equipment is part of a <i>meter</i> then this should match the <i>MeterSerialNumber</i>.</p> <p>Required unless customer owned.</p> <p>This field repeats if more than one <i>ControlEquipmentNumber</i> has been installed at the completion of the field work.</p> |

| Field | Format | Use | Definition |
|--|-------------|-----|---|
| <i>ControlEquipmentType</i> | VARCHAR(25) | R/N | <p>Describes the type of control equipment that has been installed on behalf of the LNSP.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> Internal Relay (The load is controlled using a frequency controlled relay located inside the <i>meter</i>.) External Relay (The load is controlled using a frequency controlled relay located outside the <i>meter</i>.) Internal Time Switch (The load is controlled using a time switch located inside the <i>meter</i>) External Time Switch (The load is controlled using a time switch located outside the <i>meter</i>) <p>This field repeats if more than one <i>ControlEquipmentNumber</i> has been installed at the completion of the field work.</p> <p>Required for each <i>ControlEquipmentNumber</i> provided.</p> |
| <i>ControlChannel</i> | VARCHAR(12) | R/N | <p>Describes key settings of the control equipment. As defined by the network.</p> <p>This field repeats for each <i>ControlEquipmentNumber</i>.</p> <p>Required for each <i>ControlEquipmentNumber</i> provided.</p> |
| <i>ControlConnectedMeterNumber</i> | VARCHAR(12) | R/N | <p>Meter Serial ID of the <i>meter</i> connected to the control equipment.</p> <p>This field repeats for each <i>ControlEquipmentNumber</i>.</p> <p>Required for each <i>ControlEquipmentNumber</i> provided if the control equipment is associated with a <i>meter</i>.</p> |
| <i>TransformerNumber</i> | VARCHAR(12) | M/N | <p>Faceplate serial number of the instrument <i>transformer</i> that has been installed.</p> <p>This field repeats if more than one <i>transformer</i> has been installed at the completion of field work.</p> <p>This field is not required if a <i>transformer</i> has not been installed.</p> |
| <i>TransformerType</i> | VARCHAR(2) | M/N | <p>Describes the type of instrument <i>transformer</i>.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> CT (Equipment used to transform current levels.) VT (Equipment used to transform voltage levels.) <p>This field repeats for each <i>TransformerNumber</i>.</p> <p>This field is not required if a <i>Transformer</i> has not been installed.</p> |
| <i>TransformerRatio</i> | VARCHAR(20) | M/N | <p>Describes the instrument <i>transformer</i> connected ratio. E.g. 100/10.</p> <p>This field is not required if a <i>Transformer</i> has not been installed.</p> |
| <i>TransformerConnectedMeterNumber</i> | VARCHAR(12) | R | <p>Meter Serial ID of the <i>meter</i> connected to the instrument <i>transformer</i>.</p> <p>This field repeats for each <i>TransformerNumber</i>.</p> |
| <i>TotalRemovedMeters</i> | NUM(2) | R | Number of existing <i>meters</i> removed from the site. |
| <i>TotalRemovedOther</i> | NUM(2) | R | Number of existing network or other devices removed from the site. |

| Field | Format | Use | Definition |
|-------------------------------|--------------|-----|--|
| <i>RemovedEquipmentNumber</i> | VARCHAR(12) | M/N | <p>Faceplate serial number of the removed equipment.</p> <p>This field repeats if more than one <i>meter</i> or <i>network device</i> or other equipment has been removed at the completion of field work.</p> <p>This field is not required when no <i>meter</i> has been removed or repurposed or equipment number cannot be identified.</p> |
| <i>RemovedEquipmentType</i> | VARCHAR(25) | M/N | <p>Describes the type of equipment that was removed.</p> <p>Allowed values:</p> <ul style="list-style-type: none"> Basic Meter (A <i>meter</i> that is classified as a type 6 meter.) Interval Meter (A <i>meter</i> 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 <i>voltage</i> or current levels.) <p>This field repeats for each <i>RemovedEquipmentNumber</i>.</p> <p>Mandatory for each <i>RemovedEquipmentNumber</i> provided.</p> <p>This field is not required when equipment has not been removed.</p> |
| <i>RemovedRegister</i> | VARCHAR(10) | M/N | <p>Register identifier of the removed basic <i>meter</i>. Register reads to be recorded as displayed in the meter.</p> <p>This field may repeat more than once for each <i>RemovedEquipmentNumber</i>.</p> <p>Mandatory if the <i>RemovedEquipmentType</i> is Basic Meter.</p> |
| <i>RemovedMeterReading</i> | VARCHAR(15) | M/N | <p>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 <i>meter</i> multipliers.</p> <p>This field is mandatory for each <i>RemovedRegister</i>.</p> <p>Mandatory if the <i>RemovedEquipmentType</i> is Basic Meter or where a Basic Meter is repurposed and left onsite.</p> <p>Reasonable endeavours must be used to take a valid <i>meter</i> reading. If the register read could not be obtained then one of the following codes must be provided.</p> <ul style="list-style-type: none"> NOREAD041 NOREAD061 <p>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.</p> <p>The recipient must not reject the transaction on the basis of this field when one of the above codes is provided.</p> |
| <i>Notes</i> | 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 10 NotifiedParty field values

| Field | Format | Use | Definition |
|----------------------------|-------------|-----|---|
| <i>InitiatorID</i> | VARCHAR(10) | M | Initiator's Participant ID of the <u>ServiceOrderRequest</u> . |
| <i>SORecipientID</i> | VARCHAR(10) | M | Recipient's Participant ID of the <u>ServiceOrderRequest</u> . |
| <i>NMI</i> | CHAR(10) | M | <i>NMI</i> that the notification relates to. |
| <i>NMIChecksum</i> | CHAR(1) | N | <i>NMI</i> Checksum for the <i>NMI</i> . |
| <i>ServiceOrderID</i> | VARCHAR(15) | M | A defined reference, used for reference and tracking. Format must exactly match that used in the <u>ServiceOrderRequest</u> (including leading or trailing zeros and spaces). |
| <i>ServiceOrderType</i> | VARCHAR(22) | M | <i>ServiceOrderType</i> as specified in the <u>ServiceOrderRequest</u> ; the list of codes are specified in the B2B Procedure Service Order Process. |
| <i>ServiceOrderSubType</i> | VARCHAR(40) | M | <i>ServiceOrderSubType</i> as specified in the <u>ServiceOrderRequest</u> ; the list of codes are specified in the B2B Procedure Service Order Process. |
| <i>ScheduledDate</i> | DATE | M | <i>ScheduledDate</i> as specified in the <u>ServiceOrderRequest</u> . |
| <i>ActualDateAndTime</i> | DATETIME | R | <i>ActualDateAndTime</i> as specified in the <u>ServiceOrderResponse</u> . |
| <i>NotificationStatus</i> | VARCHAR(30) | M | Allowed values: <ul style="list-style-type: none"> • SO Requested • SO Rejected • SO Completion • Accepted by Notified Party • Rejection by Notified Party • Notified Party Stopped |
| <i>RefTransaction</i> | aseXML | M/N | Copy of the transaction the notification relates to. Depending on the <i>NotificationStatus</i> of the notification, the contents must be one of the following: <ul style="list-style-type: none"> • <u>ServiceOrderRequest</u> • <u>BusinessAcceptance/Rejection</u> (sent by the Recipient in response to the <u>ServiceOrderRequest</u>.) • <u>ServiceOrderResponse</u> • <u>BusinessAcceptance</u> from Notified Party • <u>BusinessRejection</u> 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 11 *NotificationStatus* and *RefTransaction* field values

| Timing Point/Scenario | <i>NotificationStatus</i> | <i>RefTransaction</i> |
|--|-------------------------------|---|
| 1. a Recipient provides a positive <u><i>BusinessReceipt</i></u> for a <u>ServiceOrderRequest</u> | 'SO Requested' | <u>ServiceOrderRequest</u> |
| 2. a Recipient provides a negative <u><i>BusinessAcceptance/Rejection</i></u> for a <u>ServiceOrderRequest</u> | 'SO Rejected' | <u><i>BusinessAcceptance/Rejection</i></u> (sent by the Recipient in response to the <u>ServiceOrderRequest</u>) |
| 3. a <u>ServiceOrderResponse</u> is sent by the Recipient | 'SO Completion' | <u>ServiceOrderResponse</u> |
| 4. a Notified Party has accepted a <u>NotifiedParty</u> transaction (and the Initiator has specified the Notified Party/s in the related <u>ServiceOrderRequest</u>). 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 <u>NotifiedParty</u> transaction is not applicable, as the normal acknowledgement patterns will apply (Notified Party will send the negative <u><i>BusinessAcceptance/Rejection</i></u> to the Initiator). | 'Accepted by Notified Party' | <u><i>BusinessAcceptance</i></u> from Notified Party |
| 5. a Notified Party has rejected a <u>NotifiedParty</u> transaction (and the Initiator has specified the Notified Party/s in the related <u>ServiceOrderRequest</u>). Note: Where the Initiator has elected to manage notifications to Notified Parties separately, this <u>NotifiedParty</u> transaction is not applicable, as the normal acknowledgement patterns will apply (Notified Party will send the negative <u><i>BusinessAcceptance/Rejection</i></u> to the Initiator). | 'Rejection by Notified Party' | <u><i>BusinessRejection</i></u> 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 <u>NotifiedParty</u> transaction is not applicable, as the normal acknowledgement patterns will apply. | 'Notified Party Stopped' | The corresponding <i>RefTransaction</i> contents for the notification that was undeliverable. |

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: <ul style="list-style-type: none"> • 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 <u>NotificationDetail</u> 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 <u>NotificationDetail</u> (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 <u>NoticeOfMeteringWorks</u> , the <i>NomwID</i> of the transaction being accepted or rejected. In response to a <u>NotifiedParty</u> transaction, the <i>ServiceOrderID</i> that the notification relates to. In response to a <u>PlannedInterruptionNotification</u> or <u>MeterFaultAndIssueNotification</u> , the <i>NMI</i> of the transaction being accepted or rejected. |
| Context | EVENT CONTEXT | O | The Data Element in the received Business Document (eg. <i>MeterSerialNumber</i>) 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 | Planned Interruption Notification | Meter Fault Anomaly Notification | Notice Of Meter Reading Works | Notified Party | Event Code | Relevant Procedure clause or Reference Notes |
|--|----------------------|-------------|-------------|-----------------------------------|----------------------------------|-------------------------------|----------------|------------|--|
| Accept | No | Information | Y | Y | Y | Y | Y | 0 | Standard aseXML Code. |
| Data Missing. Details provided in explanation | Yes | Error | 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 | 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 | 2003 | This event indicates that an error in the payload. |
| Recipient not responsible for the supplied NMI | No | Error | N | Y | Y | Y | Y | 1923 | Standard aseXML Code. |
| Invalid Meter Readings – Removed Meter | Yes | Error | N | N | N | Y | N | 2008 | Covers situations where the data used in individual or combinations of fields is invalid. |