MSATS - Technical Specification - October 2025

1.08 November 2025

Pre-production:	Tuesday 2 September 2025 Tuesday 30 September 2025
Production:	Sunday 26 October 2025 Sunday 30 November 2025
Rules effective:	26 October – 1 December 2025
Release series:	MSATSMSR261025

Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the MSATS - Technical Specification - October 2025 (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- **Text in this format** is a link to related information. Some links require access to MarketNet.
- **Text in this format**, indicates a reference to a document on AEMO's website.
- **Text in this format** is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in the Glossary.
- Rules Terms have the meaning listed against them in the **National Electricity Rules** (Rules).

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Distribution

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Version History

1.08 In progress

Documents made obsolete

The release of this document changes only the version of MSATS - Technical Specification - October 2025.

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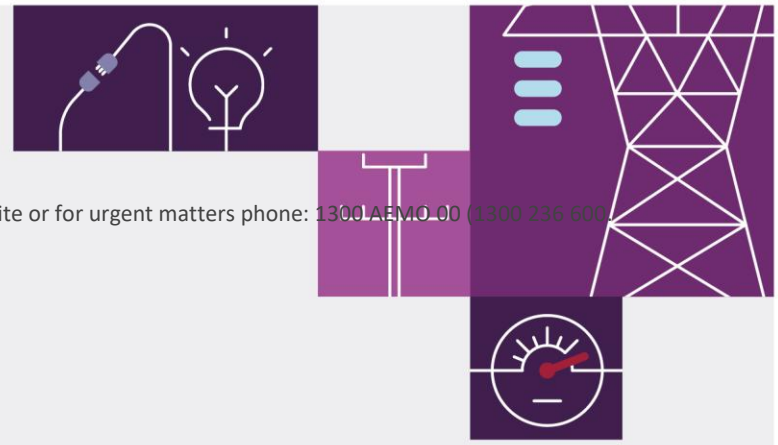

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1 Introduction

1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

The primary audience for this technical specification is B2B and B2M Retail Market Participants.

1.2 Objective

The MSATS - Technical Specification - October 2025 (Release) describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

1.3 Status

Version	Status
1.08	Updates meter exemption information
1.07	Updates version based on the design
1.06	Updates version based on the design
1.05	On Tuesday 2 September 2025, LMRP, Site Defects, ICF and IEC enhancements, and updated SDQ reports are available in the pre-production environment. For effective dates, see **Release dates** For RoLR reports, meter exemptions, and SDQ reports, we still expect changes to the design while development and testing are in progress. They are available in pre-production on Tuesday 30 September 2025
1.04	In progress. The design is not ready for participants' builds.
1.03	In progress. The design is not ready for participants' builds.
1.02	In progress. The design is not ready for participants' builds.
1.01	In progress. The design is not ready for participants' builds.
1.00	In progress. The design is not ready for participants' builds.

Version	Status
0.03	**Initial draft for review. The design is not ready for participants' builds.** Presents the MSATS - Technical Specification - October 2025 evolving design. Please send feedback to **Contact Us**. In the Details of your enquiry section, mention the DCC Knowledge Management team as the Resolver group.

1.4 Release dates

Environment	Release date	Changes	Effective date
Pre-production	Tuesday 2 September 2025	- LMRP - Site defects, ICF and IEC enhancements, and SDQ reports	- Tuesday 2 September 2025 - Tuesday 30 September 2025
Pre-production	Tuesday 30 September 2025	- RoLR reports - Meter exemptions - **Building and Property Name 2 patch release** - **LMRP patch release**	Tuesday 30 September 2025
Pre-production	Sunday 11 November 2025 (TBC)	- Meter exemptions nature type THIRD_PARTY	1 December 2025
Production	Sunday 26 October 2025	- LMRP - Site defects, ICF and IEC enhancements, and SDQ reports	- Sunday 26 October 2025 - Sunday 30 November 2025
Production	Sunday 30 November 2025	- RoLR reports - Meter exemptions - **Building and Property Name 2 patch release** - **LMRP patch release**	Sunday 30 November 2025
Production	1 December 2025 (TBC)	- Meter exemptions nature type THIRD_PARTY	1 December 2025

1.5 Projects and enhancements

Changes and enhancements for this Release include:

Project	Description	Type
MSR Package 1	Procedural and technical changes for the Retail market which includes: - Accelerated LMRP - Site Defects	Project
Embedded Network Settlement Anomalies	CATS Change Requests restricted from updating embedded network child NMI datastreams retrospectively	Project
ROLR reporting	Discontinue obsolete ROLR reports ROLR report delivery to the Participant File Server	Enhancement
ICF_077	Last Consumer Change Date (LCCD) auto populated in MSATS based on NMI status	Enhancement
ICF_078	Update NEM address element definitions because of B2M Procedures aligning with AS4590.1:2017 standard	Enhancement
IEC - B004/22	Update B2B field lengths according to B2B Procedures aligning with AS4590.1:2017 standard	Enhancement
IEC - B002/22	Address inconsistencies field, field lengths and associated enumerations in the B2M and B2B procedures and schemas	Enhancement
MSR Package 2	Meter Exemption changes to support new metering testing and inspection requirements	Project

1.6 Forums and meetings

1.6.1 MSUG meetings

The **Market Systems User Group** (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

It is open to all interested parties, with invitations sent to all Registered Participants If you have a technical question for a project and want to attend the MSUG, so you get an invite, ask your company's support team to include your email address in their **AEMO Help Desk Bulletin (CRM)**.

1.6.2 NEM Reform program stakeholder engagement

Details about the NEM Reform Forums, Working Groups, and related AEMO forums: **NEM Reform Stakeholder Engagement**.

1.6.3 Electricity Retail Consultative Forum

The **Electricity Retail Consultative Forum (ERCF)** provides a platform for participants operating in the NEM to participate in the enhancement of the Retail Electricity Market Procedures Framework (except B2B Procedures).

1.7 Rule and procedure changes

The following rules and procedures take precedence over technical specifications and guides.

Title	Status	Effective
B2B Procedures v3.9 Consultation	Final	1 December 2025
B2B Procedure: Technical Delivery Specification v3.9	Final	1 December 2025
B2B Procedure: Service Order Process v3.9	Final	1 December 2025
B2B Procedure One Way Notification Process v3.9	Final	1 December 2025
B2B Procedure Meter Data Process v3.9	Final	1 December 2025
B2B Procedure Customer and Site Details Notification Process v3.9	Final	1 December 2025
MSATS Procedures - Principles and Obligations for All Connection Points v7.1	Final	1 December 2025
Standing Data for MSATS v6.1	Draft	1 December 2025
National Electricity Amendment (Accelerating smart meter deployment) Rule 2024	Final	28 November 2024
Exemption Procedure Meter Installation Malfunctions v2.0	Amendment	1 December 2025
Metrology Procedure Part C v1.0	Draft	1 December 2025
National Electricity Amendment (Unlocking CER benefits through flexible trading) Rule 2024	Final	15 August 2024

1.8 Related technical specifications

None

1.9 Related software

Software	Change	Version	Available
B2B Validation Module	See B2B Validation Module	1.6	Pre-production: Tuesday 2 September 2025
		1.7	Pre-production: Tuesday 30 September 2025
MSATS Participant Batcher	New version updated for aseXML schema r46	2.0.18	Pre-production: Tuesday 2 September 2025

1.10 Related documents

Once published, these resources take precedence over this technical specification.

These guides and resources are updated according to this technical specification and published for the pre-production Release Date.

Title	Description	Status
aseXML r46 schema release	aseXML r46 schema files	Final
B2B Mapping to aseXML	Describes the mapping between the MSATS B2B procedures and the B2B aseXML schema	Complete
B2M Mapping to aseXML	Describes the mapping between the MSATS B2M procedures and the B2M aseXML schema	Complete
Guide to MSATS B2B	Information about the B2B e-Hub functions available in the Market Settlement and Transfer System (MSATS)	Complete
Guide to MSATS Reports	Information about CATS and MDM reports	Complete
Guide to MSATS Web Portal	Information about the B2M functions available in the Market Settlement and Transfer System (MSATS) web portal	Complete
API portal	Meter Exemptions API changes	Published in pre-production
Guide to Metering Exemptions	Information about submitting and managing metering exemptions in the MSATS web portal	In progress

1.11 Approval to change

Access to the Markets Portal Help requires a MarketNet connection. Please speak with your company's Participant Administrator if you require access.

AEMO is seeking Participant feedback from the Electricity Retail Consultative Forum (ERCF), B2B Working Group, and interested parties.

1.12 Market systems user group meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

MSUG meetings are open to all interested parties, with invitations sent to all included on the distribution list. If you have a technical question for a project and want to attend the MSUG ask your company's support team to include your email address in their **AEMO Help Desk Bulletin (CRM)** distribution list.

1.13 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review these changes, detailed below.

1.14 Changes in this version

This version includes the following changes:

- Adds changes to payloadResponseMessage in the submitMeterExemption 200 response
- Updates meter exemption validations

2 Proposed Timeline

Milestone	Date	Description
Approval required	n/a	For details, see **Approval to change**
Revised Technical Specification	January 2025	AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth From the production release, the technical specification becomes final and the **related documents** become the source of truth **Technical Specification Portal**
Related Documents publication	Tuesday 2 September 2025	Release of guides and resources mentioned in **Related documents**
MSUG meeting	Wednesday 27 August 2025	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions This date is tentative. The Knowledge Management Team provides the invitation prior to the meeting
Pre-production refresh	24 - 28 August 2025	Refresh of the retail pre-production system with data from the production system. For more information, see **Pre-production Refresh**
Pre-production implementation	Tuesday 2 September 2025 and Tuesday 30 September 2025	AEMO implements components of the Release to pre-production for participant testing. For details including effective dates, see **Release dates** AEMO has full access to the system during this period Participant access is not restricted; however, the data content or system availability is not guaranteed
Pre-production available	Tuesday 2 September 2025 and Tuesday 30 September 2025	Testing period begins for participants. For details including effective dates, see **Release dates**
Participant Testing	9 September 2025 - 28 November 2025	Unstructured participant testing in the pre-production environment
Production implementation	Sunday 26 October 2025	AEMO implements the release to production
Production systems available	Sunday 26 October 2025 and Sunday 30 November 2025	Production systems available to participants. For details including effective dates, see **Release dates**

3 Participant Impact

AEMO revises the pre-production and production release dates. See **Release dates**.

To comply with this Release, participants must:

1. Decide if you need to implement B2B schema transforms. For help, see **B2B Browser** in Markets Portal Help.
2. Schedule staff and resources to upgrade your B2B and B2M aseXML schemas to r46. For help, see Guide to Transition of aseXML.
3. Download and install upgraded software versions. For help, see **Related software**.

3.1 Building and Property Name 2 patch

The current r44 aseXML schema supports the maxoccurs=2 attribute for the BuildingOrPropertyName element. The patch maps the BuildingOrPropertyName2 to the second element. The maxoccurs=2 attribute for the BuildingOrPropertyName remains, however only the values from the first BuildingOrPropertyName field and BuildingOrPropertyName2 are stored. This is required from 1 December 2025.

3.2 LMRP patch

The LMRP patch deactivates the Blind Update Tool from populating LMRP values in MSATS. LMRP values are required to be populated prior to the Rule effective date 1 December 2025. This patch ensures any changes to the LMRP provides CR notifications to all affected participants.

3.3 B2B impact

Item	Project or enhancement	Changes
B2B aseXML schema	IEC enhancements Site Defects LMRP Shared Fusing Meter Replacement (One In All In)	LMRP, Site Defects (One In All In), address and B2B field length alignment changes to support **B2B Procedures v3.9**

Item	Project or enhancement	Changes
B2B Validation Module	Site defects LMRP IEC enhancements Shared Fusing Meter Replacement (One In All In)	New permitted values for B2B transactions
B2B Browser	Site Defects LMRP IEC enhancements Shared Fusing Meter Replacement (One In All In)	Updates to Create Transaction interfaces
B2B transactions	Site Defects LMRP IEC enhancements	New: Service Order Request sub types for Metering Service Works and Supply Service Works. Updates: - Enumerated values for One Way Notification subtype Meter Faults and Issues Notification and Service Order Response - Field length for Service Order and Customer and Site Detail Notification fields, HazardDescription, FormNumber, and FormReference

3.4 B2M impact

Item	Project or enhancement	Change
aseXML B2M schema	ERCF and IEC enhancements LMRP Site Defects	New version

Item	Project or enhancement	Change
CATS NMI Standing Data	LMRP Site Defects	New CATS_NMI_DATA attributes: - LMRP - Defect Flag - Defect type - Defect Issuing MC - BuildingorPropertyName2 Changes to address elements to align with AS4590.1:2017
Blind Update Tool (BUT)	LMRP	LMRP field to support initial population between 26 October 2025 to 27 November 2025 as per rule change
Change requests and notifications	LMRP Site Defects Embedded Network Settlement Anomalies ICF 077 and 078	New and updated CRs and notifications
CATS reports	LMRP Site Defects	Changes to CATS Reports (C1, C4, C7, C29) and MSATS Snapshot Report. It includes five new attributes: - LMRP - Defect Flag - Deflect type - Defect Issuing MC - BuildingorPropertyName2 Changes to address elements to align with AS4590.1:2017
Last Consumer Change Date (LCCD)	ICF077	AEMO auto-populates the LCCD field in the NMI create process, i.e. populate the NMI's LCCD with the activation date for NMIs moving from a greenfield status to active status

3.5 aseXML r46

r46 aseXML schema includes changes for MSR Package 1 and ERCF and B2B Working Group enhancements.

Effective 26 October 2025, participants affected by the B2M change in MSATS Procedures v7 must implement r46. This allows:

- Capturing changes to the LMRP value set by BUT through the CATS C1 ReportResponse.

The r45 aseXML schema changes only applies B2B gas retail.

Gas participants are scheduled to adopt r45 in Q2 2026.

- Ensuring B2M CRs referencing aseXML elements in MSATS Procedures v7.1 before 1 December 2025 fail validation in MSATS.

From the effective date 1 December 2025 with the MSR Package 1 Defect, ICF changes, and B2B v3.9 Procedures changes, participants must implement r46 to meet defect and address alignment obligations.

For help transitioning, see **Transition of aseXML**.

3.5.1 aseXML B2B schema r46

Current B2B aseXML schema	Superseded B2B aseXML schema
r46	r43

3.5.2 B2B schema transforms

Receiving version	Transforms
r46	r43 to r46
r43	r46 to r43

For details, see **B2B aseXML schema**.

3.5.3 aseXML B2M schema r46

Latest	Current	Superseded
r46	r46	r44

If you are not ready to transition your B2M aseXML schema with AEMO:

1. Change your schema preference to Current before the Release Dates.
2. When AEMO transitions, we move you to the Superseded preference.
3. When ready, complete your upgrade and observe the processing is correct. You may still receive some older aseXML versions for a short time during the transition period, around 24 hours.
4. Change your schema preference to Current.

For details, see **B2M aseXML schema**.

3.5.4 B2M aseXML schema preference lower than r46

For participants having a B2M aseXML schema preference lower than r46, the new aseXML items are removed from Message Responses with a comment flagging the removal in the transformed aseXML payload.

3.5.5 B2M aseXML schema transition

For details, see **B2M schema release implementation**.

3.5.6 aseXML schema change impact summary

For details, see:

- **B2B aseXML schema**
- **B2M aseXML schema**

3.5.7 BuildingOrPropertyName element transition

The aseXML r46 schema introduces the use of single-occurrence elements BuildingOrPropertyName (primary) and BuildingOrPropertyName2 (secondary).

In the BuildingOrPropertyName element, the maxOccurs="2" attribute remains to support two BuildingOrPropertyName values for B2B transaction until 30 November 2025. From the B2B Procedures effective date 1 December 2025, 2 values must be sent using the BuildingOrPropertyName and BuildingOrPropertyName2 elements.

3.6 AEMO MSATS configurable code fields

AEMO uses the CND_[nn] framework to map field names in the CATS_NMI_DATA table to the C1 CATS Transaction Field Validations report. Where possible, participants should use the procedural field names defined in Standing Data for MSATS.

Existing cats_nmi_data CND_nn fields are assigned to the following field names:

- Legacy Meter Replacement Plan = CND_14
- Defect flag = CND_15
- Defect Type = CND_16
- Defect Issuing MC = CND_17
- Building or Property Name 2 = CND_18

AEMO is increasing the CND_[nn] framework to cater for new fields in the future.

AEMO recommends participants do not hard code the AEMO MSATS configurable fields.

3.7 User Rights Management

Participant Users must have the following user rights entities to access new transactions provided by their company's Participant Administrator in the MSATS Web Portal > Administration > Maintain Rights menu.

URM entity	Type	Description
B2BB_U202_SORMSWINSTALL_ISOL	Interactive	Access B2B Trans Service Order Request Meter Service Works Install Meter Isolation Device interface in B2B browser
B2BB_U202_SORTEMPISOLATION_OIAI	Interactive	Access B2B Trans Service Order Request Temporary Isolation-One In All In interface in B2B browser
B2BB_U202_SORTEMPISOLATION_SCP	Interactive	Access B2B Trans Service Order Request Temporary Isolation-Scoping Request interface in B2B browser

3.8 ROLR reports

Changes include:

- Discontinuing obsolete reports from 1 December 2025, as described in the ROLR Procedures.
- ROLR reports added to the CATS transaction group for delivery to the Participant File Outbox by API or FTP.

See **ROLR Reports**.

4 Enhancements

4.1 High-level changes

Function	Enhancement	Description	Impacted	MSATS functionality
MSATS standing data	LMRP Site Defects Building or Property Name 2	New CATS NMI standing data attributes	Entitled participant roles	NMI Standing Data
B2B transactions	LMRP Site defects IEC enhancements Shared Fuse Meter Replacement (One In All In)	Changes to: - Metering Service Works - Meter Fault and Issue Notification - Service Order Request with new subtypes	Initiating Participant roles and receiving roles	B2B
Blind Update Tool (BUT)	LMRP	New LegacyMtrReplacementPlan attribute	LNSP	B2M
B2B Browser	LMRP IEC enhancements Shared Fuse Meter Replacement (One In All In)	Create new transaction	Initiating Participant roles and receiving roles	B2B
CATS reports	LMRP Site defects ERCF enhancements	Updated MSATS C1, C4, C7, Snapshot reports	LNSP MC FRMP	B2M
SDQ queries	LMRP Site defects	New RM29 SDQ queries	MC	B2M

Function	Enhancement	Description	Impacted	MSATS functionality
Change Request (CR) and notifications	LMRP Site defects Embedded Network Settlement Anomalies	Update CR 5050/5051 to support updates to LMRP value Update to CR 4050/4051 to exclude EN Child NMI datastreams New CR 4060 to update EN Child NMI datastreams	Entitled Participant roles and initiating Participant roles	B2M
MSATS Web Portal	LMRP Site defects ROLR reports ERCF enhancements	Includes new LMRP and site defect attributes Changes to address elements to align with AS4590.1:2017 Changes to: - Create New Transaction interface - NMI Master interface - NMI Master Summary interface	Entitled Participant roles and initiating Participant roles	B2M

Function	Enhancement	Description	Impacted	MSATS functionality
B2B Browser	Site Defects ERCF and IEC enhancements Shared Fuse Meter Replacement (One In All In)	Changes to: - Service Order Request, Metering Service Works transaction type - One Way Notification, Meter Fault and Issue Notification transaction type - B2B Service Order Response New B2B Service Order Request subtypes: - Temporary Isolation-Scoping Request - Temporary Isolation-One In All In - Install Meter Isolation Device	Initiating Participant roles and receiving roles	B2B
B2M schema	LMRP Site defects	New fields	Initiating Participant roles and receiving roles	B2M

Function	Enhancement	Description	Impacted	MSATS functionality
B2B schema	LMRP Site defects Shared Fusing Meter Replacement	Changes to: - Electricity enumerations - Service Order Response - Service Order Request, Metering Service Works transaction type - One Way Notification, Meter Fault and Issue Notification transaction type New B2B Service Order Request subtypes: - Temporary Isolation-Scoping Request - Temporary Isolation-One In All In - Install Meter Isolation Device	Initiating Participant roles and receiving roles	B2B
Common B2B and B2M schema	ICF-078 B004/22 B002/22	Address data enhancements for consistency and alignment to AS4590.1:2017 standard Align B2B and B2M field elements	Entitled Participant roles	B2B B2M – CATS
Blind Update Tool API	LMRP	New LMRP field		B2M

Function	Enhancement	Description	Impacted	MSATS functionality
Metering exemptions	Meter testing, inspections, and malfunctions	New exemption types and configuration data impacting the web interface and API New exemption validation rules	MC	B2M

4.2 Legacy meter replacement plan (LMRP)

The LMRP describes replacing all existing type 5 (excluding those with remote acquisition) and type 6 meters with type 4 (smart) meters by 30 November 2030 in the National Electricity Market. To support this requirement, the LNSP in conjunction with applicable FRMP and MC is required to record and maintain the LMRP in MSATS.

4.3 Site defects

A final rule introduces a new requirement for MSATS to specify the information that must be recorded when an MC identifies a defect at the metering installation.

AEMO's MSATS Procedures requires the MC to record a Defect Flag, Defect Type, and Defect Issuing MC in MSATS.

4.4 Shared fuse meter replacement

A final rule introduces a Shared Fusing Meter Replacement Procedure which defines a One In All In process for meter upgrades on a shared fuse. When the smart meter installation at an NMI requires the isolation of more than one customer at that NMI due to a shared network fusing arrangement, DNSPs, FRMPs, and MCs must coordinate efforts. This is required so that any legacy meters on the shared fuse are replaced at the same time.

For details of the One in All in process, see page 14 of the **B2B Procedures v3.9 Consultation**.

For information about IT changes supporting share fusing meter replacement, see **High-level changes**.

4.5 Embedded network settlement anomalies

The AEMC's final rule determination Unlocking CER benefits through flexible trading, in agreement with AEMO that settlement anomalies with child NMIs can occur due to retrospective connections and disconnections.

The changes are:

- Limiting the ability for NMI datastreams in embedded networks to be activated or deactivated retrospectively.
- Continue to allow for retrospectively creating new Child NMIs.
- Continue to allow for retrospectively exchanging meters.

4.6 ICF077 auto populate LCCD field for new NMIs

In accordance with the CATS Procedures, all current financially responsible Market Participants (**FRMPs**) are obligated to maintain the Last Consumer Change Date (LCCD) field within MSATS. AEMO introduced the LCCD field to better support the Consumer Data Right Rule (**CDR Rule**) and enables customers to access data which can span multiple retailers for the same NMI.

AEMO proposes to auto-populate the LCCD field to maintain the NMI completion process, where an NMI status is updated from Greenfield "G" to Active "A". This impacts FRMPs who maintain the LCCD field within MSATS.

4.7 ICF078 address data enhancements

This ICF aligns the address standard in B2M Procedures with the AS4590.1:2017 standard. It supersedes the current NEM addressing which is based on the AS4590-1999 standard.

This change request includes the following changes:

- Increase character lengths in key address fields for capturing detailed address information and avoiding data truncation.
- Update enumerated values for address elements. This enhancement provides more accurate and complete address data and consistent data standards between B2B and B2M.

4.8 IEC - B004/22 - align B2B field lengths to the Australian Standard

A parallel change to ICF078 to update address element definitions to AS4590.1:2017.

4.9 IEC - B002/22 – align B2B and B2M field elements

This change resolves inconsistencies in the field, field lengths and associated enumerations in the B2M and B2B procedures and schemas. This can impact key industry functions. For example, when a customer provides hazard details to the Retailer, the Retailer forwards this information to the applicable B2B participants.

4.10 ICF-079 NEM12 MDFF inconsistencies

Remove the inconsistency between clauses 4.4 and 4.5 of the Meter Data File Format Specification NEM12 & NEM13 (MDFF Specification) relating to the provision of 400 block data for actual reads.

4.11 Retailer of last resort reports

The AER initiates a Retailer of Last Resort (ROLR) event when a FRMP cannot support its financial obligations within the NEM. The ROLR reporting process is updated to improve the request and delivery of reports. The changes include:

- Discontinuing reports that are no longer required.
- Delivering ROLR reports to the Participant File Server outbox.

For details, see **ROLR Reports**.

4.12 Meter testing, inspections, and malfunctions

MCs can apply for a malfunction exemption for metering installations when they cannot repair the metering installation within the timeframes defined in clause 7.8.10(a) of the NER.

The Final Rule removes the requirement for DNSPs to test their existing type 5 and type 6 meters during the acceleration phase of smart meter deployment. Additionally, all existing exemptions are included into the LMRP. Consequently, malfunctions during the acceleration phase only applies for type 1, type 2, type 3 and type 4 metering installations.

NER amendments and Exemption Procedure Meter Installation Malfunction define the expected timeframe to rectify a metering installation malfunction. AEMO has proposed changes to the Metering Installation Exemption Guideline in its consultation, streamlining MCs applying for a meter exemption.

The changes include:

- 4 new exemption types - Whole Current Connected NMI, LV CT Connected NMI, HV connected NMI, Family Failure and associated nature values.
- Deactivating old exemption type and nature configuration for the malfunction category.

- MSATS Web Portal - The meter exemptions interface new configuration field and checkbox for MCs to populate when raising and exemption.
- Automatic approval or rejection for some Whole Current Connected NMIs and Family Failure exemptions.
- Validation to restrict continual exemption for same NMI and exclusion of non-conforming participants from automated processing.

5 B2B

5.1 B2B aseXML schema

This schema release r46 affects B2B.

For help with schema transitions, see **Guide to Transition of aseXML**.

For potentially impacted files, transactions, and versioned types for r46, see **Impact summary**.

To obtain schemas, guidelines, whitepapers etc, see aseXML Standards**.**

5.1.1 Schema changes summary

Affected files	New	Modified
aseXML_r46	n/a	Included file versions: - Common - Electricity - Electricity Enumerations - Transactions - Service Order - One Way Notification
Common_r46	n/a	HazardDescription – Increase maximum length from 80 to 100 characters

Affected files	New	Modified
Electricity_r46	Additional enumerated values for SORDResponseCode to support MP-initiated Service Orders Responses for defects and One In All In to FRMPs: - Appointment Required - Comms Refused - Coordination Failure - Defect - Demolished - Dog - Incorrect Service Order - Mismatch with Standing Data - Natural Event - No Access - Network Support Required - Not FRMP - No Adult Present - Obstruction - Shared Fuse - Scoping Required - Site Not Ready - Unable To Isolate - Unable To Locate Site New enumerated values for ServiceOrderSubType: - Temporary Isolation - Scoping Request: For supporting FRMP-initiated Service Orders to the DNSP for a One In All In shared fusing scoping request - Temporary Isolation One In All In: For supporting FRMP-initiated Service Orders to the DNSP for a One In All In shared fuse scoping request	The following values are updated to support the alignment of NEM B2M and B2B fields: - FormNumber – Increase maximum length from 15 to 20 characters - FormReference – Reduce maximum length from 30 to 20 characters -

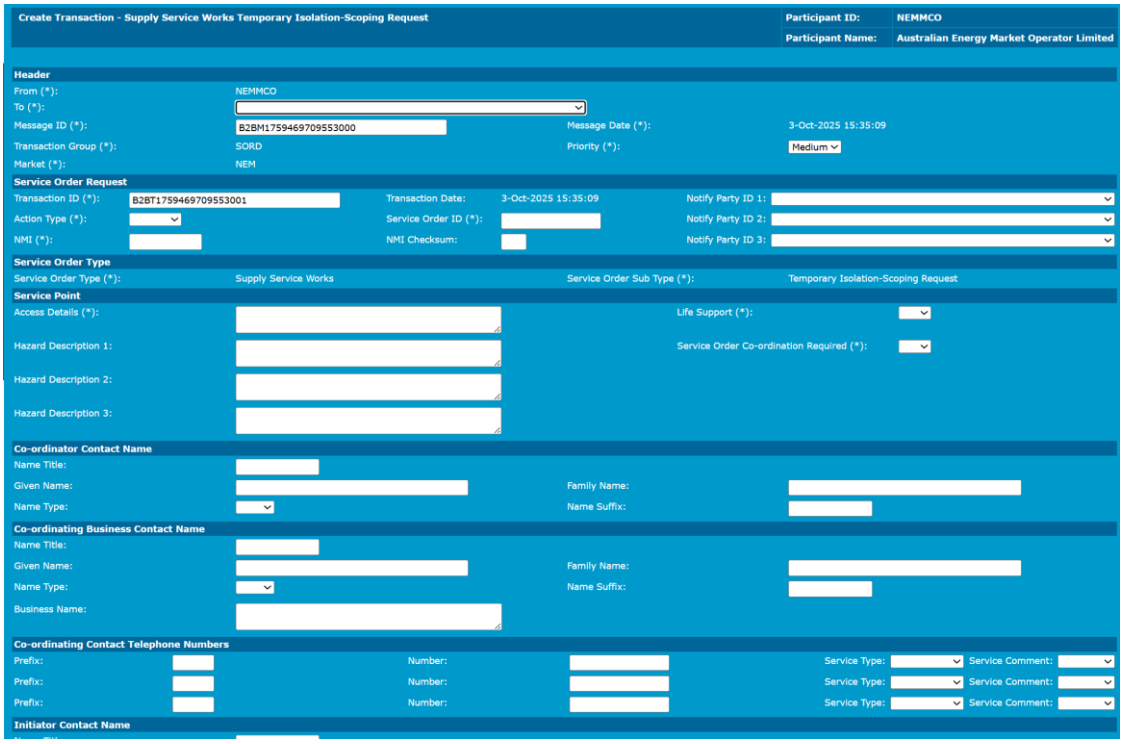
Affected files	New	Modified
Electricity Enumerations	Enumerations for the LMRP and One In All In process: - RegClassification - PurposeOfRequest - SORDResponseCode Adds Remediation Advised to the enumerated list for PurposeOfRequest element, to support FRMP initiating Metering Service Works Service Orders Requests for defects to MPs Adds One In All In to the enumerated list for ReasonForNotice element, to support DNSP initiated Meter Fault And Issue Notification One Way Notifications for shared fuse outages to an FRMP	n/a

In the r46 aseXML schema , the maxoccurs=2 attribute remains in BuildingOrPropertyName for using 2 instances from 26 October to 30 November 2025. From 1 December 2025, BuildingOrPropertyName and BuildingOrPropertyName2 must be used to represent primary and secondary complex names.

5.2 B2B browser

The B2B Browser changes include:

- Updates to B2B transaction create, view, and edit interfaces to include enumerated values.
- B2B transactions with new sub type interfaces:
  - Metering Service Works > Install Meter Isolation Device
  - Supply Service Works > Temporary Isolation-One In All In
  - Supply Service Works > Temporary Isolation-Scoping Request



5.3 B2B transactions

Enhancement	Transaction	Changes
Site defects	Metering Service Works	- In the B2B Browser interface, a FRMP can set Purpose Of Request to Defect Resolved to notify the MP the customer has advised the defect is resolved
Site defects	Service Order Response	- In the B2B Browser, an MP can set numerous SORDResponseCode to cover One In All In exemptions
Shared fuse meter replacement LMRP	Supply Service Works	- Temporary Isolation - Scoping Request Service Orders for shared fusing to DNSP. - Temporary Isolation – One In All In Request Service Orders and Install Meter Isolation Device for shared fuse to DNSP
	Metering Service Works	- Subtype Install Meter Isolation Device
Shared fuse meter replacement	One Way Notification	- DNSP can initiate Meter Fault And Issue Notification to FRMP for shared fuse outage

B2B transactions has changes to support the site defects process.

5.4 B2B validation module

The B2B Validation Module provides the following validations:

- LMRP and One In All In are permitted values for RegClassification
- Remediation Advised is a permitted value for PurposeOfRequest
- Permitted values for SORDResponseCode:
  - Appointment Required
  - Comms Refused
  - Coordination Failure
  - Defect
  - Demolished
  - Dog
  - Incorrect Service Order
  - Mismatch with Standing Data
  - Natural Event
  - No Access - Network Support Required
  - Not FRMP
  - No Adult Present
  - Obstruction
  - Shared Fuse - Scoping Required
  - Site Not Ready
  - Unable To Isolate
  - Unable To Locate Site
- One In All In is a permitted value for ReasonForNotice
- New validation rules when MCs update the Site Defect flag

6 B2M

6.1 B2M aseXML schema

This schema release r46 affects B2M.

For help with schema transitions, see **Guide to Transition of aseXML**.

For potentially impacted files, transactions, and versioned types for r46, see **Impact summary**.

To obtain schemas, guidelines, whitepapers etc, see aseXML Standards**.**

6.1.1 Schema changes summary

Affected files	New	Modified
aseXML_r46	n/a	Included file versions: - ElectricityMasterStandingData - Enumerations - ClientInformation
ElectricityMasterStandingData_r46	Elements to support requirements related to the LMRP, Site Defects, and Site Defect Notifications: - LegacyMtrReplacementPlan - DefectFlag - DefectIssuingMC - DefectType	

Affected files	New	Modified
Enumerations	4 new enumerations: - LL - LOWER LEVEL - PTHS - PENTHOUSE - PL - PLATFORM - PD - PODIUM	AustralianFloorOrLevelType - Maximum length updated from 2 to 4 characters Adds comment to describe the name mapping from AS4590.1:2017 to the aseXML for AustralianStreetName: - AS4590.1:2017 abbreviation – aseXML Abbreviation - Name - FRTL - FITR - FIRETRAIL - AV - AVE - AVENUE - CR - CRES - CRESCENT - GLDE – GLD - GLADE - PWY – PKWY - PARKWAY Adds comment to describe the name mapping from AS4590.1:2017 to the aseXML for AustralianFlatOrUnitType: - AS4590.1:2017 abbreviation – aseXML Abbreviation - Name - DUPL - DUP - DUPLEX - FCTY - FY - FACTORY - FLAT – F - FLAT - MBTH – MB - MARINE BERTH - OFFC – OFF - OFFICE - ROOM - RM - ROOM - STLL - SL - STALL - UNIT - U - UNIT - WHSE - WE – WAREHOUSE
ClientInformation_r46	New element BuildingOrPropertyName2	BuildingOrPropertyName - Updates maximum length from 30 to 50 characters - Removes the MaxOccurs value StreetName – Updates maximum character length from 30 to 45 characters FloorOrLevelType – Updates maximum character length from 2 to 4 characters

-
- To minimise significant changes in participants' systems, AustralianStreetName and AustralianFlatOrUnitType retains certain enumerations rather than changing them as defined in AS4590.1:2017. The enumerations schema file includes comments to map the AS4590.1:2017 Abbreviation to the aseXML abbreviation.
-

6.1.2 B2M schema release implementation

During the pre-production and production implementations, participants' preferences for their B2M transaction receiving schema version is transitioned by AEMO in the MSATS Web Portal > Participants > Participant Schema as follows:

Before MSATS release		During implementation		After MSATS release	
Transaction group	**B2M participant schema**	**Outbound schema version**		**B2M participant schema**	**Outbound schema version**
CATS	LATEST	r44	AEMO transitions participants on LATEST to r46 for continued compliance	LATEST	r46
NMID	LATEST	r44		LATEST	r46
MDMT	LATEST	r44		LATEST	r46
CATS	CURRENT	r44	Participants on CURRENT remain on , with the setting changed to Superseded. Participants can choose when to transition to the new Current/Latest setting	SUPERSEDED	r44
NMID	CURRENT	r44		SUPERSEDED	r44
MDMT	CURRENT	r44			r44
CATS	SUPERSEDED	r43	AEMO transitions participants on the Superseded version r43 to the new Superseded version r44. r43 and earlier versions are unsupported; all responses return in r44	SUPERSEDED	r44
NMID	SUPERSEDED	r43		SUPERSEDED	r44
MDMT	SUPERSEDED	r43		SUPERSEDED	r44

6.1.3 Assign null value to site defect elements

To assign a null value for the DefectFlag, DefectType, and DefectIssuingMC elements, use the attribute xsi:nil="true" as shown in the following example.

```
    <MasterData>
        <DefectFlag xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
        <DefectType xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
        <DefectIssuingMC xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
    </MasterData>
```

6.2 Blind update tool

The Blind Update Tool (BUT) has the following changes:

- LEGACY_METER_REPLACEMENT_PLAN field to support initial population between 26 October 2025 to 27 November 2025.
- Updates to the LEGACY_METER_REPLACEMENT_PLAN values where the AER has approved amendments to the LMRP schedule over the acceleration period (2025-2030).
- When the LEGACY_METER_REPLACEMENT_PLAN attribute is set in BUT, all entitled roles can request and receive the updated value in a C1 or MSATS Snapshot report.

BUT updates do not trigger CATS notifications. AEMO recommends only performing BUT updates when participants can capture and ingest changes.

6.2.1 csv submission example

A csv payload example for submitting legacy meter replacement plan values is shown below.

```
C,TEST,BLIND_UPDATE_SUBMISSION,PARTICIPANTID,NEMMCO,2025/05/02,16:12:0
0,,,,NEM,BUT02050415
I,BUS,NMI_DATA,1,NMI,FIELD,NEW_VALUE
D,BUS,NMI_DATA,1,9998887771,LEGACY_METER_REPLACEMENT_PLAN,2026/05/10
D,BUS,NMI_DATA,1,9842723212,LEGACY_METER_REPLACEMENT_PLAN,2026/05/10
D,BUS,NMI_DATA,1,9483292123,LEGACY_METER_REPLACEMENT_PLAN,2026/05/10
C,END OF REPORT,6
```

The BUT limit for a single payload is 50,000 rows.

For information about the BUT payload format, see **Create Payload** and **CSV Data Format Standard** in Markets Portal Help.

6.2.2 BUT interfaces

There are no changes to the BUT interface in MSATS Web Portal or BUT API.

6.3 CATS standing data

New standing data items using existing cats_nmi_data CNDnn fields.

Field	MSATS standing data table	Description
Legacy Meter Replacement Plan	CATS_NMI_DATA	The scheduled replacement date for legacy meters
Defect Flag	CATS_NMI_DATA	A flag identifying the defect at site which prevents a metering upgrade
Defect Type	CATS_NMI_DATA Enumeration values stored in MSATS_CODES_DATED	The type of defect preventing the repair of a meter or replacement of a legacy meter
Defect Issuing MC	CATS_NMI_DATA	The MC that raised the defect
Building or Property Name 2	CATS_NMI_DATA	A secondary address field for capturing additional building or property name information

The standing data items are:

- Displayed in the **NMI Master and NMI Master Summary interfaces** in MSATS.
- Contained in the C1, C4, C7, and Snapshot reports. For information about roles that have access to the standing data fields, see Table 17-C – NMI Standing Data Items and CATS Standing Data NMI Discovery Data Access Rules in **MSATS Procedures - Principles and Obligations for All Connection Points v7.1**.

6.4 Change requests and notifications

6.4.1 LMRP

Existing 5050/5051 CRs and validation rules updated to allow DNSPs to update the LMRP value.

Notifications for LMRP updates are sent to participants with an active association to the NMI.

6.4.2 Site defects

CR 5301 – Change Defect Flag - retrospective for MCs updating the Defect flag, Defect Type, and Defect Issuing MC.

Notifications for the Defect flag, Defect Type, and Defect Issuing MC updates are sent to participants with an active association to the NMI. An example is shown below.

```
<?xml version="1.0" encoding="UTF-8"?><ase:aseXML
xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header><From>METERMC</From><To>NEMMCO</To><MessageID>METERNMC_MSG_2
0250105120200000</MessageID><MessageDate>2025-01-
05T12:02:00.000+10:00</MessageDate><TransactionGroup>CATS</Transaction
Group><Priority>Medium</Priority><SecurityContext>MDHAGLE</SecurityCon
text><Market>NEM</Market></Header>
  <Transactions>
    <Transaction transactionDate="2025-01-05T12:02:00.000+10:00"
transactionID="METERMC_20250105120200000">
      <CATSChangeRequest version="r29">
        <ChangeReasonCode>5301</ChangeReasonCode>
        <ProposedDate>2025-01-05</ProposedDate>
        <NMIStandingData version="r43"
xsi:type="ase:ElectricityStandingData">
          <NMI checksum="9">9898919768</NMI>
          <MasterData>
            <DefectFlag>Y</DefectFlag>
            <DefectIssuingMC>METERMC</DefectIssuingMC>
            <DefectType>ASBESTOS</DefectType>
    </MasterData>
        </NMIStandingData>
      </CATSChangeRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

For CR 3004/3005 Exchange of Metering Information and 3090/3091 Advanced Meter Exchange, the NMI's Defect flag, Defect Type, and Defect Issuing MC values are automatically set to null when a meter installation code BASIC or MRIM is removed, and a new meter installation code of COMMS or MRAM is activated. The LegacyMtrReplacementPlan value remains populated.

6.4.3 Embedded network settlement anomalies

To ensure the NMI datastream status code does not change retrospectively:

- CR 4050/4051 includes a validation to check the embedded network child name is not populated.
- New CR 4060 Change NMI Datastream Details – A child NMI datastream can be updated to set the datastream status as active or inactive.

A retrospective Change NMI Datastream is not available for child NMIs.

6.4.4 ICF-077 Auto populate LCCD field for new NMIs

When an NMI status is updated from Greenfield “G” to Active “A”, AEMO auto-populates the LCCD field and includes the updated LCCD field in the CR 5050/5051 and CR5060/5061 CATS notification to all participants who are entitled to receive the notifications. An example is shown below.

```
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Energex Limited">ENGYPART</To>
    <MessageID>NEMMCO-MSG-9898236450</MessageID>
    <MessageDate>2025-06-06T02:37:22+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="NOTF-2739165299"
transactionDate="2025-06-06T00:18:58+10:00"
initiatingTransactionID="LCCDMDM">
    <CATSNotification version="r29">
         <Role>RP</Role>
         <RoleStatus>C</RoleStatus>
<ChangeRequest>
   <Participant>ENGYPART</Participant>
   <RequestID>1441204352</RequestID>
   <ChangeStatusCode>COM</ChangeStatusCode>
   <ChangeData>
      <ChangeReasonCode>5051</ChangeReasonCode>
      <ActualChangeDate>2025-06-01</ActualChangeDate>
      <NMIStandingData xsi:type="ase:ElectricityStandingData"
version="r46">
         <NMI checksum="0">9990005230</NMI>
         <MasterData>
            <Status>A</Status>
            <LastConsumerChangeDate>2025-06-
01</LastConsumerChangeDate>
         </MasterData>
      </NMIStandingData>
   </ChangeData>
</ChangeRequest>
<JurisdictionCode>QLD</JurisdictionCode>
<NMIClassificationCode>SMALL</NMIClassificationCode>
<ObjectionEndDate>2025-06-05</ObjectionEndDate>
</CATSNotification>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

6.4.5 ICF-078

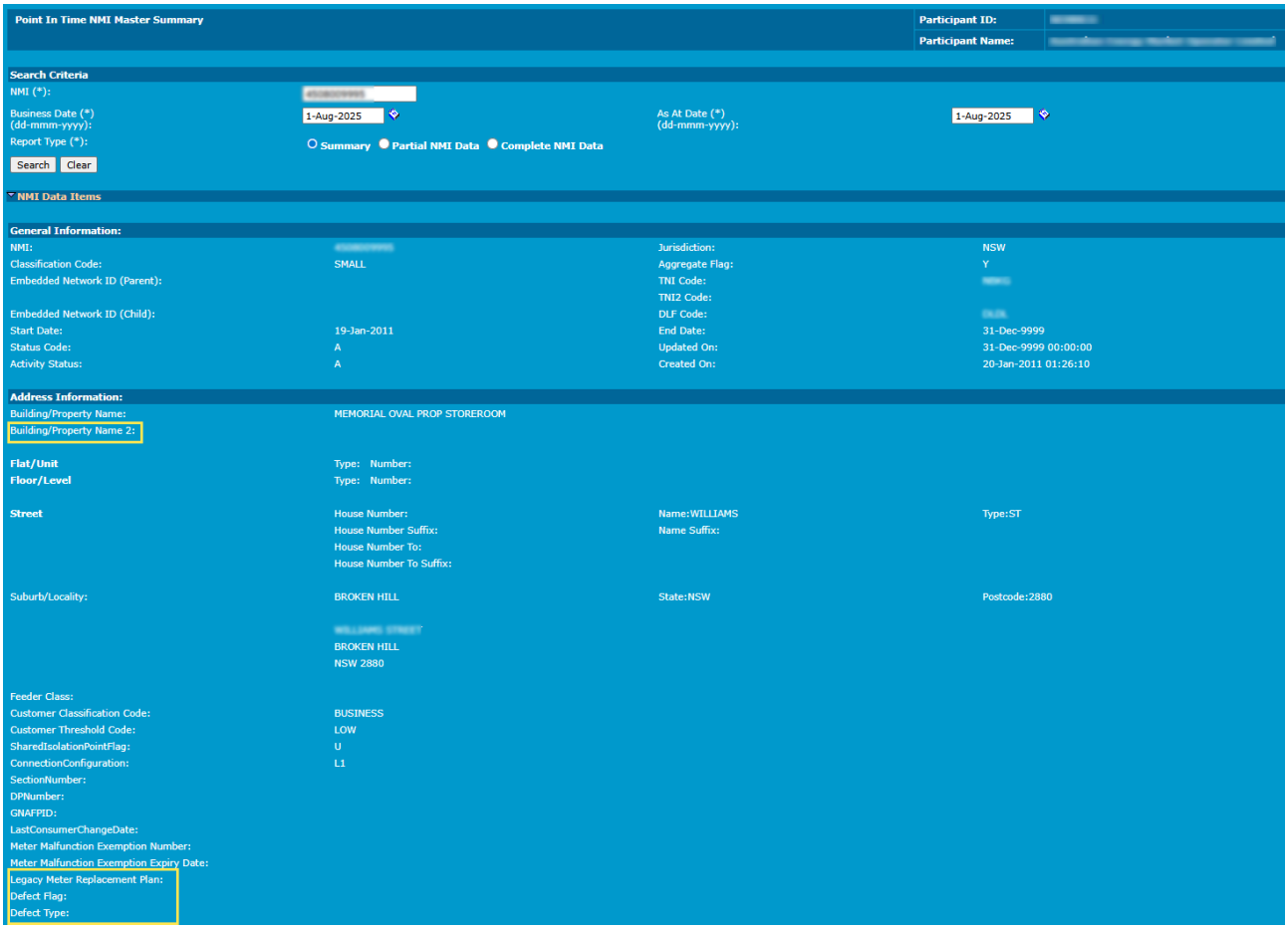
Affected CR Codes for new field BuildingOrPropertyName2

Change Reason Code	Impacted
2000/1	New LNSP initiating the CR
2020/1	New ENM initiating the CR
2500/1	New LNSP initiating the CR
2520/1	New ENM initiating the CR
5001	New LNSP (who must be Current LNSP where the NMI exist) initiating the CR
5021	New ENM (who must be Current ENM where the NMI exist) initiating the CR
5050/1	Current LNSP initiating the CR
5060/1	Current ENM initiating the CR
5100/1	AEMO initiating standing data update

6.5 NMI master and NMI master summary interfaces

The NMI Master and NMI Master Summary interfaces include new fields:

- LegacyMtrReplacementPlan
- Defect flag
- Defect Type
- Defect Issuing MC
- BuildingOrPropertyName2



6.6 RM29 standing data quality report

The RM29 SDQ report includes new queries to support the LMRP.

6.6.1 LMRP_IS_NULL query

Query ID	LMRP_IS_NULL
Purpose	Identifies BASIC or MRIM NMIs with no LMRP value. Victorian Type 5 Advanced Metering Installation (VICAMI) meters are excluded
Recipient	MC
Delivery	Participant Outbox every week
Data source	CATS
Format	aseXML compliant XML message with csv payload

Output

H row	D row example	MSATS Standing Data element name	Description
QueryId	LMRP_IS_NULL	n/a	Query identifier
Stat_Date	2024-07-08	n/a	Query run date in the format YYYY/MM/DD
ParticipantId	MCPID	Party	The party in CATS_NMI_PARTICIPANT_RELATIONS ID whose relationship (Role) with the NMI is MC
RoleId	RP	Role	The Participant relationship (Role) with the NMI in CATS_NMI_PARTICIPANT_RELATIONS
Source	CATS	n/a	[Fixed value]
Table	n/a	n/a	n/a
NMI_ID	20001000048	NMI	NMI. This number is unique for each connection point within the NEM.
METER_SERIAL	2319099	SerialNumber	NMI serial number
SDR_KEY_3	n/a	n/a	n/a
StartDate	25/11/2026	Fromdate	The NMI start date or start date of the record update
EndDate	31/12/9999	Todate	Date the record ends
Field	n/a	n/a	n/a
FRMP	FRMP	Party	The party in CATS_NMI_PARTICIPANT_RELATIONS ID whose relationship (Role) with the NMI is FRMP
LNSP	LNSP	Party	The party in CATS_NMI_PARTICIPANT_RELATIONS ID whose relationship (Role) with the NMI is LNSP
MITC	BASIC	InstallationTypeCode	Meter Installation Type Code
LMRP	12-JAN-2026	LegacyMtrReplacementPlan	Legacy Meter Replacement Plan date
Defect_Flag	Y	Defect Flag	Indicates a defect exists for a given NMI

Example

```
<CSVData>
H,QueryId,Stat_date,ParticipantId,RoleId,Source,Table,NMI_ID,METER_SER
IAL,SDR_KEY_3,StartDate,EndDate,Field,FRMP,LNSP,MITC,LMRP,Defect_Flag
D,LMRP_IS_NULL,2025-07-08,MYMC,RP,CATS,n/a,1234567890,20009273,,2026-
11-25,2027-12-31,n/a,FRMP,LNSP,BASIC,,Y
</CSVData>
```

6.6.2 LMRP_IN_PAST query

Query ID	LMRP_IN_PAST
Purpose	Identifies BASIC or MRIM NMIs with a LMRP date in the past and no defect is assigned
Recipient	MC
Delivery	Participant Outbox every week
Data source	CATS
Format	aseXML compliant XML message with csv payload

Output

H row	D row example	MSATS Standing Data element name	Description
QueryId	LMRP_IN_PAST	n/a	Query identifier
Stat_Date	2024-07-08	n/a	Query run date in the format YYYY/MM/DD
ParticipantId	MCPID	Party	The party in CATS_NMI_PARTICIPANT_RELATIONS ID whose relationship (Role) with the NMI is MC
RoleId	RP	Role	The Participant relationship (Role) with the NMI in CATS_NMI_PARTICIPANT_RELATIONS
Source	CATS	n/a	Fixed value
Table	n/a	n/a	n/a
NMI_ID	20001000048	NMI	NMI. This number is unique for each connection point within the NEM.

H row	D row example	MSATS Standing Data element name	Description
METER_SERIAL	2319099	SerialNumber	NMI serial number
SDR_KEY_3	n/a	n/a	n/a
StartDate	2026-11-25	Fromdate	The NMI start date or start date of the record update
EndDate	2027-12-31	Todate	Date the record ends
Field	n/a	n/a	n/a
FRMP	FRMP	Party	FRMP Participant ID
LNSP	LNSP	Party	LNSP Participant ID
MITC	BASIC	InstallationTypeCode	Meter Installation Type Code
LMRP	12-JAN-2026	LegacyMtrReplacementPlan	Legacy Meter Replacement Plan date
Defect_Flag	Y	Defect Flag	Indicates a defect exists for a given NMI

Example

```
<CSVData>
H,QUERYID,STAT_DATE,PARTICIPANTID,ROLEID,SOURCE,TABLE,NMI_ID,METER_SERIAL,SDR_KEY_3,STARTDATE,ENDDATE,FIELD,FRMP,LNSP,MITC,LMRP,DEFECT_FLAG
D,LMRP_IN_PAST,2025-07-29,MYMC,RP,CATS,n/a,1234567890,0647451,,2011-07-25,9999-12-31,n/a,SOLARIS,UNITED,MRIM,30-Jun-2025,
D,LMRP_IN_PAST,2025-07-29,MYMC,RP,CATS,n/a,2134567890,0648241,,2020-01-13,9999-12-31,n/a,MOMENT,UNITED,MRIM,18-Jun-2025,
</CSVData>
```

6.7 Meter exemptions

Meter exemptions include new exemption categories and a malfunction duration.

6.7.1 Meter malfunction exemption types

4 new malfunction exemption types for rectifying a meter malfunction.

Type	Nature of exemption	Timeframe to rectify
Whole Current Connected NMI	- Faulty meter - Faulty comms module - Third party	30 business days
LV CT Connected NMI	- Faulty meter - Faulty comms module - Faulty CT - CT cabling or test block - Third party	As specified by the MC
HV Connected NMI	- Faulty meter - Faulty metering unit - Faulty comms module - Faulty CT - Faulty VT - Blown fuse - VT CT cabling or test block - Marshalling box - Third party	As specified by the MC
Family Failure	- Whole current meter - LV CT meter - LV current transformer	140 business days for whole current meter

If the end date entered in the exemption exceeds the mandated timeframe to rectify the malfunction, the status is updated to More Info for the Participant to update.

If the status of the exemption is More Info and the required information has not been updated or received by the end date, it will be rejected.

6.7.2 Nature types

A breaking change to add THIRD_PARTY nature value into the meter exemption for HV_NMI, LV_CT_NMI, and WC_NMI types. For release details, see **Release dates**.

6.7.3 Meter exemption hierarchy codes

Allowable combinations of Category, Type, and Nature codes for meter exemptions.

Code 1 - Category	Code 2 - Type	Code 3 - Nature
MALFUNCTION	FAMILY	LV_CT

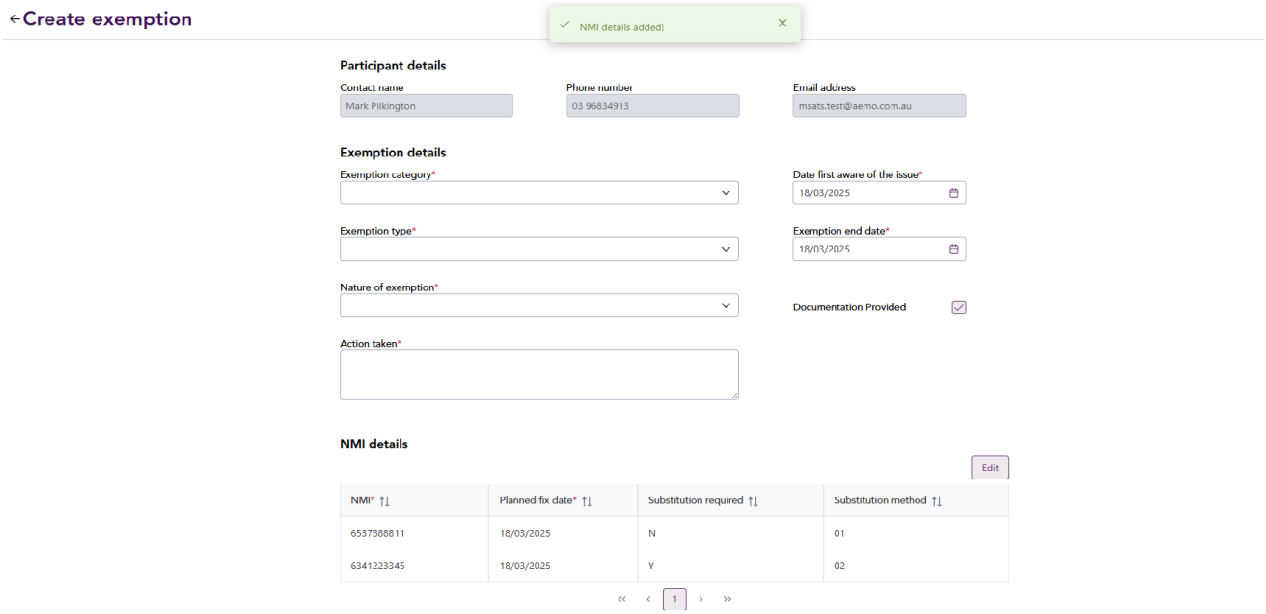
Code 1 - Category	Code 2 - Type	Code 3 - Nature
MALFUNCTION	FAMILY	LV_CT_METER
MALFUNCTION	FAMILY	WC_METER
MALFUNCTION	HV_NMI	COMMS
MALFUNCTION	HV_NMI	CT
MALFUNCTION	HV_NMI	FUSE
MALFUNCTION	HV_NMI	MARSHALL_BOX
MALFUNCTION	HV_NMI	METER
MALFUNCTION	HV_NMI	METER_UNIT
MALFUNCTION	HV_NMI	VT
MALFUNCTION	HV_NMI	VT_CT_CABLE
MALFUNCTION	HV_NMI	THIRD_PARTY
MALFUNCTION	LV_CT_NMI	COMMS
MALFUNCTION	LV_CT_NMI	CT
MALFUNCTION	LV_CT_NMI	CT_CABLE
MALFUNCTION	LV_CT_NMI	METER
MALFUNCTION	LV_CT_NMI	THIRD_PARTY
MALFUNCTION	WC_NMI	COMMS
MALFUNCTION	WC_NMI	METER
MALFUNCTION	WC_NMI	THIRD PARTY
TYPE4A	ENVIRON	ACCESS
TYPE4A	ENVIRON	ADMIN
TYPE4A	ENVIRON	CUSTOMER
TYPE4A	ENVIRON	SAFETY
TYPE4A	ENVIRON	TECHNICAL
TYPE4A	NOALTNWK	ACCESS
TYPE4A	NOALTNWK	ADMIN

Code 1 - Category	Code 2 - Type	Code 3 - Nature
TYPE4A	NOALTNWK	CUSTOMER
TYPE4A	NOALTNWK	TECHNICAL
TYPE4A	NOPUBNWK	ACCESS
TYPE4A	NOPUBNWK	ADMIN
TYPE4A	NOPUBNWK	TECHNICAL

6.7.4 MSATS web portal > Meter exemptions

For MCs creating an exemption, the Participant details interface includes the following changes:

- A **Documentation provided** checkbox indicating additional documentation has been sent to AEMO. This is available when creating an exemption or the exemption has a status of More Info.
- The NMI details section includes a substitution method field to specify the substitution method when the Substitution required value is Y.



6.7.5 Meter exemptions API

The Meter Exemptions API includes new and updated fields.

Field	Data type	Mandatory	Description	Applies to
docProvided	string	Conditional	Documentation is sent after creating or updating an exemption. Values are Y or N	- Submit Meter Exemption request payload - Get Meter Exemption Details responses
substitutionMethod (JSON) SUBSTITUTION_METHOD (csv)	string	Conditional	The substitution method when the substitutionReq is Y. It must be provided when substitutionReq is Y	- Submit Meter Exemption request payload - Get Meter Exemption Details responses
payloadResponseMessage	string	n/a	An updated exemption summary when creating or updating a meter exemption. It includes: - NMIs submitted - Total NMIs in the exemption - Live NMIs	**Submit Meter Exemption 200 response**

Submit meter exemption

The Documentation provided field is added to first part of the payload request containing the meter exemptions details. The Substitution method is added in the second part of the JSON or csv payload containing the meter exemption NMIs, shown in the examples below.

Meter exemption details payload example

```
{
"meterExemption":
  {
            "exemptionDate": "2022-08-12",
            "endDate": "2022-09-06",
            "exemptionCategory": "MALFUNCTION"
            "exemptionType": "DEFECTIVE"
            "exemptionNature": "ACCESS"
            "actionTaken": "Issue logged with Telstra. Fix ETA
13/10/2022"
            "actionReason": "Checked communications"
      “conditions”: “XYZ”,
            "docProvided": "Y"
  }
}
```

Meter exemptions NMIs JSON payload example

```
{
"meterExemptionNMIs": [
   {
      “action”: “NEW”
      "NMI": "1234567890",
      "planDate": "2022-08-06",
      "substitutionReq": "Y",
      "substitutionMethod": "01"
   }
      ]
}
```

Meter exemptions NMIs csv payload example

```
C,PRODUCTION,METER_EXEMPTION_NMI,POWERCOR,NEMMCO,2022/04/07,22:04:05,,
,,NEM,0
I,MEN,ACTION,NMI,PLAN_DATE,SUBSTITUTION_REQ,SUBSTITUTION_METHOD
D,MEN,NEW,1234567890,2023/08/06,Y,01
C,END OF REPORT,4
```

Get meter exemption details

The new fields are included in the response when requesting metering exemption details by meterExemptionId, shown in the example below.

```
{
    "transactionId": "12345-abcd-27",
    "data": {
        "participantContact": {
            "contactName": "John Smith",
            "phoneNumber": "0123456789",
            "email": "john.smith@company.com"
        }
"meterExemption": {
            "meterExemptionid": "123456789012345",
            "participantId": "ENERGYCOMC",
            "startDate": "2026-08-06",
            "endDate": "2026-09-06",
            "status": "ACTIVE",
            "statusDate": "2026-08-06",
            "exemptionDate": "2026-08-12",
            "exemptionCategory": "MALFUNCTION"
            "exemptionType": "DEFECTIVE",
            "exemptionNature": "ACCESS",
            "actionTaken": "Issue logged with Telstra. Fix ETA
13/10/2026",
            "actionReason": "Checked communications",
            "conditions": "This exemption is conditional on receipt of
a plan for
    the rectification of the metering installation containing the
    matters referred to in section 3.2 of the Exemption Procedure -
    Metering Installation Malfunctions",
            "docProvided": "Y",
            "extendCount": "1"
        }
"meterExemptionHistory": [
            {
                "status": "MORE DATA",
                "statusDate": "2026-07-01",
                "conditions": "This exemption is conditional on
receipt of a plan for
    the rectification of the metering installation containing the
    matters referred to in section 3.2 of the Exemption Procedure -
    Metering Installation Malfunctions"
            }
        ]
"meterExemptionNMIs": [
            {
                "NMI": "1234567890",
                "status": "NEW",
                "planDate": "2026-08-06",
                "substitutionReq": "Y",
                "substitutionMethod": "01",
                "statusMessage": "XYZ"
            }
        ]
    }
}
```

Submit meter exemption 200 response

The payloadResponseMessage field provides an updated summary of the meter exemption:

- NMIs submitted: The value can be zero when the meter exemption is being updated.
- Total NMIs in the exemption: The value can include duplicate NMIs. It represents the NMI row count rather than a unique NMI count.
- Live NMIs: The number of NMIs in an ACTIVE or NEW status.


```
{
    "transactionId": "string",
    "data": {
        "meterExemptionId": "123456789012345",
        "meterExemptionStatus": "REVIEW",
        "payloadResponseStatus": "Accept",
        "payloadResponseMessage": "NMIs submitted: 3 Total NMIs in the exemption: 3 Live NMIs in the exemption: 0"
    }
}
```


6.7.6 Validation rules

AEMO validates the meter exemption request and associated NMIs at different stages of the processing workflow.

Validations after meter exemption creation

The table below describes validations after a meter exemption is created.

Validation	Status	Reason
Requesting participant is not the active RP (MC) for the NMI	NMI status is set to Rejected	Participant is not the MC
NMI does not exist in MSATS	NMI status is set to Rejected	Unknown NMI
NMI has a status of X (extinct) in the NMI standing data	NMI status is set to Rejected	Extinct NMI
NMI has a status of N (non market) in the NMI standing data	NMI status is set to Rejected	Non-market NMI
NMI is assigned to another exemption in an Active or New status	NMI status is set to Rejected	NMI is already exempt
The NMI is excluded without any error message	NMI status is set to Rejected	Duplicate NMI within an exemption list

Validation	Status	Reason
Exemption is rejected	Exemption status is set to Rejected	All assigned NMIs are rejected

Validations for exemptions in review

The following table describes validations when processing exemptions in the For Review status.

Validation	Exemption request status	Reason
The substitution method is not provided	More Info	Substitution Required value is Y, but the Substitution Method is not provided
The NMI has previously been exempted for the same exemption category and exemption type for the same MC within a configured period	Rejected	Previously exempt NMIs for the same exemption category and type
Reject NMIs that recently had an exemption	Rejected	An extension is not allowed for: - FAMILY type if the NMI is previously exempt in the last 365 days - LV_CT_NMI, LV_CT_NMI, or WC_NMI types if the NMI is previously exempt in the last 62 days
The NMI has a CT exemption type and the active metering installation does not have current ratio values	Rejected	Current ratio values are not populated for the NMI in the exemption
The NMI has an HV exemption type and the active metering installation does not have current ratio and voltage ratio values	Rejected	Current ratio and voltage ratio values are not populated for the NMI in the exemption
NMI action provided is not valid for Meter Exemption status	Rejected	Invalid meter exemption NMI Action

Automated processing validations

Validation	Exemption request status	Reason
Exemption includes NMI with invalid MITC	For Review	The NMI's Meter Installation Type Code (MITC) is COMMS1, COMMS2, COMMS3, COMMS4, COMMS8, COMMS9, or COMMS9CM
Exemption includes Participant ID flags to not allow automated processing	For Review	AEMO to manually review exemptions for certain Participant IDs

Validation	Exemption request status	Reason
The exemption's end date exceeds the duration for the automated exemption type	More Info	Family Failure exemptions can have an extension for 70 business days. Individual NMIs can have a 15-day extension
An exemption with More Info status is not updated within 25 calendar days	Rejected	The exemption is not updated in the required timeframe
The exemption is sent for an extension	Rejected	An extension is not allowed for meter malfunctions for FAMILY, WC_NMI, LV_CT_NMI types, and HV_NMI types with COMMS and METER nature values
The exemption is automatically approved	Active	The exemption matches the required category, type, and nature values

7 ROLR Reports

7.1 Process

The ROLR report delivery process is changing from email to files delivered as a .zip file to the Participant File Server Outbox.

To receive ROLR report notifications, you set Participant Outbox protocol for the CATS transaction group to API or FTP.

For information about changing your outbox protocol, see **Change your outbox protocol** in Markets Portal Help.

7.2 C10 ROLR reports

Purpose	The C10 ROLR reports: - Identifies NMIs and associated CRs impacted by a ROLR event. - Provides data to participants, AER, and ESC about suspended retailers (SR) and the NMIs transitioning to new FRMPs.
Content	See report queries
Request	Triggered by a ROLR event. Not available on request
Delivery	Participant Outbox
Context type	ROLR NMI details
Priority	High
Role	FRMP, LNSP, SR, MDP, and other impacted roles
Format	Zipped aseXML compliant XML message with csv payload. The payload consists of C (comment), I (information), and D (data) rows. For help, see **CSV Data Format Standard**
File Row limit	20,000
Schema version	r44
User rights	n/a

7.2.1 Output

The report output data is available in 2 formats: NMI list and CRs. The following table lists and describes the query output fields for all reports.

Field	Description	csv row
MSATS	System	C
ROLR	Report	C
NMI_LIST	ROLR report type	C
NEMMCO	The report sender	C
Recipient	Participant ID of the report recipient	C
Date	Date the report is sent	C
Time	Time the report is sent	C
Recipient	The participant receiving the report	I
Recipient_Role	The participant's role	I
Source	The source of data (CATS)	I
Table	n/a	I
Request_Id	The unique identifier for the request	I
Nmi	National Meter Identifier	I
Proposed_Date	The proposed date of the Change Request	I
Rolr_Date	The ROLR event date	I
Suspended_Retailer	The FRMP that is suspended	I
CrCode	The change request code	I
CrStatusCode	The Change Request status code	I
CrRaisedBy	The entity that raised the CR	I
SrRole	The suspended retailer role	I
RoleChange	The change in role in the Change Request	I
CurrentParticipant	The current participant who manages the NMI	I
NewParticipant	The new participant nominated into the role	I

Field	Description	csv row
NmiStatusCode	The status code of the NMI	I
NmiClassCode	The class code of the NMI	I
New_Retailer	Participant ID of the new FRMP taking over the NMI during or after the ROLR event	I
Tnicode	The Transmission Network Identifier	I
Lnsp	Local Network Service Provider	I
Profile_Area	The Profile Area associated with the NMI	I
Parent_Nmi	The parent NMI	I
Child_Nmi	An NMI associated with the parent NMI. The values are Y or N indicating the whether the NMI is a child NMI	I
Sum_Adl	Summed Accumulated Daily Load (ADL). Aggregates the ADL values from active datastreams only. Reactive datastreams are excluded	I

7.2.2 Raised change request

Purpose	The ROLR Raised CR report lists in progress Change Requests submitted by the SR that modify a Participant's role, excluding changes to the FRMP or LR roles
QueryIds	There are 2 variants: - ROLR_CR_RAISED_LNSP - ROLR_CR_RAISED_PA
I row fields	I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Role,Source,Table,Request_Id,Nmi,Not_Used,Proposed_Date,Rolr_Date,Field,Suspended_Retailer,CrCode,CrStatusCode,CrRaisedBy,SrRole,RoleChange,CurrentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
Recipients	Suspended Retailer (SR) and new FRMP

Example

```
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Participant Id">PART_ID</To>
    <MessageID>NEMMCO-MSG-1341612311</MessageID>
    <MessageDate>2025-08-21T14:36:35+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="CATS-3148417623"
transactionDate="2025-08-21T14:36:35+10:00"
initiatingTransactionID="273530839">
      <ReportResponse version="r39">
        <ReportParameters xsi:type="ase:GenericReportParameters">
            <ReportName>ROLR Raised CR</ReportName>
        </ReportParameters>
<ResultBlock>
<TotalBlockNumber>1</TotalBlockNumber>
<CurrentBlockNumber>1</CurrentBlockNumber>
</ResultBlock>
        <ReportResults xsi:type="ase:CSVReportFormat">
<CSVData>C,MSATS,ROLR_RAISED_CR,NEMMCO,PART_ID,2025/08/21,14:36:12
I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Rol
e,Source,Table,Request_Id,Nmi,Not_Used,Proposed_Date,Rolr_Date,Field,S
```

```
uspended_Retailer,CrCode,CrStatusCode,CrRaisedBy,SrRole,RoleChange,Cur
rentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
D,SDR_RESULTS,ROLR_CR_RAISED_PA,2,2025-08-
21,PART_ID,FRMP,CATS,n/a,1441272353,9999001300,,2025-07-26,2025-08-
05,n/a,SUSP_PART,6800,PEND,NEMMCO,SR,MPB,CURR_PART,NEW_PART,A,SMALL
D,SDR_RESULTS,ROLR_CR_RAISED_PA,2,2025-08-
21,PART_ID,FRMP,CATS,n/a,1441272354,9999001300,,2025-07-26,2025-08-
05,n/a,SUSP_PART,6200,PEND,NEMMCO,SR,MDP,CURR_PART,NEW_PART,A,SMALL
D,SDR_RESULTS,ROLR_CR_RAISED_PA,2,2025-08-
21,PART_ID,FRMP,CATS,n/a,1441310691,9999239864,,2025-08-22,2025-08-
05,n/a,SUSP_PART,6800,REQ,NEMMCO,SR,MPB,CURR_PART,NEW_PART,A,SMALL
D,SDR_RESULTS,ROLR_CR_RAISED_PA,2,2025-08-
21,PART_ID,FRMP,CATS,n/a,1441310692,9999239864,,2025-08-22,2025-08-
05,n/a,SUSP_PART,6200,REQ,NEMMCO,SR,MDP,CURR_PART,NEW_PART,A,SMALL
C,END OF REPORT,7</CSVData>
        </ReportResults>
        <Event severity="Information">
          <Code>0</Code>
          <Explanation>Success.</Explanation>
        </Event>
      </ReportResponse>
</Transaction>
  </Transactions>
</ase:aseXML>
```

7.2.3 Cancel change request

Purpose	A list of all in progress CRs where the SR is nominated as the new FRMP. The proposed date is on or after the ROLR effective date AEMO cancels the listed CRs
QueryId	ROLR_CANCEL_CR
I row fields	I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Role,Source,Table,Request_Id,Nmi,Not_Used,Proposed_Date,Rolr_Date,Field,Suspended_Retailer,CrCode,CrStatusCode,CrRaisedBy,SrRole,RoleChange,CurrentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
Recipients	LNSP/ENM, current FRMP, and SR

Example

```
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Participant Id">PART_ID</To>
    <MessageID>NEMMCO-MSG-1341604131</MessageID>
    <MessageDate>2025-08-18T13:57:45+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="CATS-3148405871"
transactionDate="2025-08-18T13:57:45+10:00"
initiatingTransactionID="273530802">
      <ReportResponse version="r39">
        <ReportParameters xsi:type="ase:GenericReportParameters">
            <ReportName>ROLR Cancel CR</ReportName>
        </ReportParameters>
<ResultBlock>
<TotalBlockNumber>1</TotalBlockNumber>
<CurrentBlockNumber>1</CurrentBlockNumber>
</ResultBlock>
        <ReportResults xsi:type="ase:CSVReportFormat">
<CSVData>C,MSATS,ROLR_CANCEL_CR,NEMMCO,PART_ID,2025/08/18,13:57:31
I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Rol
e,Source,Table,Request_Id,Nmi,Not_Used,Proposed_Date,Rolr_Date,Field,S
```

```
uspended_Retailer,CrCode,CrStatusCode,CrRaisedBy,SrRole,RoleChange,Cur
rentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
D,SDR_RESULTS,ROLR_CR_CANCEL,2,2025-08-
18,PART_ID,FRMP,CATS,n/a,1441310643,9999001081,,2025-08-18,2025-08-
05,n/a,SUSP_PART,1000,REQ,NEMMCO,FRMP,FRMP,CURR_PART,NEW_PART,A,SMALL
C,END OF REPORT,4</CSVData>
        </ReportResults>
        <Event severity="Information">
          <Code>0</Code>
          <Explanation>Success.</Explanation>
        </Event>
      </ReportResponse>
</Transaction>
  </Transactions>
</ase:aseXML>
```

7.2.4 Accelerated change request

Purpose	The ROLR Accelerated Change Request (CR) report lists all in progress CRs where the NMI is being transferred from the SR to the new FRMP or AEMO updates the change date on these CRs to match the RoLR effective date. Completing each CR transfers the pending retailer on that same date.
QueryId	ROLR_ACCELERATE_CR
I row fields	SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Role,Source,Table,Request_Id, Nmi, Not_Used,Proposed_Date,Rolr_Date,Field,Suspended_Retailer,CrCode,CrStatusCode,CrRaisedBy, SrRole,RoleChange,CurrentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
Recipients	SR, LNSP/ENM, new FRMP, and MDP

Example

```
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Participant Id">PART_ID</To>
    <MessageID>NEMMCO-MSG-1341612303</MessageID>
    <MessageDate>2025-08-21T14:34:02+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="CATS-3148417615"
transactionDate="2025-08-21T14:34:02+10:00"
initiatingTransactionID="273530837">
      <ReportResponse version="r39">
        <ReportParameters xsi:type="ase:GenericReportParameters">
            <ReportName>ROLR Accelerated CR</ReportName>
        </ReportParameters>
<ResultBlock>
<TotalBlockNumber>1</TotalBlockNumber>
<CurrentBlockNumber>1</CurrentBlockNumber>
</ResultBlock>
        <ReportResults xsi:type="ase:CSVReportFormat">
<CSVData>C,MSATS,ROLR_ACCELERATE_CR,NEMMCO,PART_ID,2025/08/21,14:31:15
I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Rol
e,Source,Table,Request_Id,Nmi,Not_Used,Proposed_Date,Rolr_Date,Field,S
uspended_Retailer,CrCode,CrStatusCode,CrRaisedBy,SrRole,RoleChange,Cur
rentParticipant,NewParticipant,NmiStatusCode,NmiClassCode
D,SDR_RESULTS,ROLR_CR_ACCELERATE,2,2025-08-
21,PART_ID,MDP,CATS,n/a,1441310689,9999239864,,2025-08-22,2025-08-
05,n/a,SUSP_PART,1000,REQ,NEMMCO,FRMP,FRMP,CURR_PART,NEW_PART,A,SMALL
C,END OF REPORT,4</CSVData>
        </ReportResults>
        <Event severity="Information">
          <Code>0</Code>
          <Explanation>Success.</Explanation>
        </Event>
      </ReportResponse>
</Transaction>
  </Transactions>
</ase:aseXML>
```


7.2.5 NMI list

Purpose	The NMI list report provides a list of affected NMIs where the SR is the current FRMP

Report types and queries	There are two report types. ROLR NMI List report by PA with the following queries: - ROLR_NMI_PA_SR_FRMP_CURRENT_ROLES - Lists affected NMIs for the current assigned roles where the SR is the active FRMP - ROLR_NMI_PA_SR_LR_NEW_LR – Lists affected NMIs for the new FRMP via the LNSP configuration where the Suspended Retailer is the active LR - ROLR_NMI_PA_SR_FRMP_CURRENT_ROLES - List affected NMIs for the current assigned roles where the Suspended Retailer is the active FRMP - ROLR_NMI_PA_SR_FRMP_NEW_FRMP - Lists affected NMIs for the new FRMP via the LNSP configuration where the Suspended Retailer is the active FRMP ROLR NMI List report by LNSP with the following queries: - ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES - A list of affected NMIs for the current assigned roles where the Suspended Retailer is the active LR - ROLR_NMI_LNSP_SR_LR_NEW_LR - A list of affected NMIs for the new LR via the LNSP configuration where the Suspended Retailer is the active LR - ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES - A list of affected NMIs for the current assigned roles where the Suspended Retailer is the active FRMP - ROLR_NMI_LNSP_SR_FRMP_NEW_FRMP - A list of affected NMIs for the new FRMP via the LNSP configuration where the Suspended Retailer is the active FRMP
I row fields	SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Role,Source,Table,Nmi,Sr_Role,Suspended_Retailer,Rolr_Date,Unused,Field,New_Retailer,Nmistatuscode,Nmiclasscode,Tnicode,Lnsp,Profile_Area,Child_Nmi,Parent_Nmi,Sum_Adl,Unused
Recipients	SR, New FRMP, MDP, LNSP/ENM, MC, and ENLR if the SR is an ENLR. Participants receive specific queries in the report according to their role

7.3 Example

The report example below shows the participant is the SR and includes the queries ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES and ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES.

```
<?xml version="1.0" encoding="UTF-8"?><ase:aseXML
xmlns:ase="urn:aseXML:r44"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
xsi:schemaLocation="urn:aseXML:r44
```

```
http://www.nemmco.com.au/aseXML/schemas/r44/aseXML_r44.xsd"><!--This
file is the result of transformation from r46 to r44-->
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Onsite Energy Solutions Pty Ltd">OES</To>
    <MessageID>NEMMCO-MSG-1341656429</MessageID>
    <MessageDate>2025-09-05T14:22:13+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="CATS-3148483162"
transactionDate="2025-09-05T14:22:13+10:00"
initiatingTransactionID="273530918">
      <ReportResponse version="r39">
        <ReportParameters xsi:type="ase:GenericReportParameters">
            <ReportName>ROLR NMI List</ReportName>
        </ReportParameters>
<ResultBlock>
<TotalBlockNumber>1</TotalBlockNumber>
<CurrentBlockNumber>1</CurrentBlockNumber>
</ResultBlock>
        <ReportResults xsi:type="ase:CSVReportFormat">
<CSVData>C,MSATS,ROLR_NMI_LIST,NEMMCO,OES,2025/09/05,14:14:20
I,SDR_RESULTS,QueryId,Record_Version,Stat_Date,Recipient,Recipient_Rol
e,Source,Table,Nmi,Sr_Role,Suspended_Retailer,Rolr_Date,Unused,Field,N
```

```
ew_Retailer,Nmistatuscode,Nmiclasscode,Tnicode,Lnsp,Profile_Area,Child
_Nmi,Parent_Nmi,Sum_Adl,Unused
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002589342,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002589594,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002589628,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002589686,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002589820,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002590080,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002590572,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002590780,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002591042,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,12,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,2002591489,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,1,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,4311195657,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,LARGE,NHLD,INTEGP,INTEGRAL,N,Y,4560,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,6407208532,FRMP,OES,2025-09-
01,,n/a,PULSE,A,SMALL,VTS4,UNITED,UNITED,N,N,56,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,SAAAAAB328,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,36,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,SAAAAAC258,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SKLB,UMPLP,UMPLP,N,N,103,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,SAAAAAD339,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,2,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_FRMP_CURRENT_ROLES,2,2025-09-
05,OES,FRMP,CATS,n/a,SAAAAAE470,FRMP,OES,2025-09-
01,,n/a,POWERCOR,A,SMALL,SJP1,UMPLP,UMPLP,N,N,24,
I,SDR_RESULTS,
QueryId,Record_Version,Stat_Date,Recipient,Recipient_Role,Source,Table
,Nmi,Sr_Role,Suspended_Retailer,Rolr_Date,Unused,Field,New_Retailer,Nm
```

```
istatuscode,Nmiclasscode,Tnicode,Lnsp,Profile_Area,Child_Nmi,Parent_Nm
i,Sum_Adl,Unused
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES,2,2025-09-
05,OES,LR,CATS,n/a,4319900218,LR,OES,2025-09-
01,,n/a,Unknown,A,LARGE,NHLD,INTELENM,INTEGRAL,Y,N,286,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES,2,2025-09-
05,OES,LR,CATS,n/a,4319900226,LR,OES,2025-09-
01,,n/a,Unknown,A,SMALL,NHLD,INTELENM,INTEGRAL,Y,N,44,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES,2,2025-09-
05,OES,LR,CATS,n/a,4319900298,LR,OES,2025-09-
01,,n/a,Unknown,A,LARGE,NHLD,INTELENM,INTEGRAL,Y,N,1425,
D,SDR_RESULTS,ROLR_NMI_LNSP_SR_LR_CURRENT_ROLES,2,2025-09-
05,OES,LR,CATS,n/a,4319900303,LR,OES,2025-09-
01,,n/a,Unknown,A,LARGE,NHLD,INTELENM,INTEGRAL,Y,N,455,
C,END OF REPORT,24</CSVData>
        </ReportResults>
        <Event severity="Information">
          <Code>0</Code>
          <Explanation>Success.</Explanation>
        </Event>
      </ReportResponse>
</Transaction>
  </Transactions>
</ase:aseXML>
```

7.4 Discontinued ROLR reports

The following ROLR reports are discontinued from 1 December 2025.

Report number	Report name	Recipient
ROLR_002	RoLR/FRMP Summary Report Type B	MDP
ROLR_003	RoLR/FRMP Summary Report Type C	LNSP
ROLR_004	RoLR/FRMP Summary Report Type D	RoLR as the new FRMP
ROLR_005	RoLR/FRMP Summary Report Type D	The Suspended Retailer (SR)
ROLR_006	RoLR/FRMP Summary Report Type E	MPB
ROLR_007	RoLR/LR Summary Report Type A	Each Jurisdiction
ROLR_008	RoLR/LR Summary Report Type B	MDP
ROLR_009	RoLR/LR Summary Report Type C	LNSP
ROLR_010	RoLR/LR Summary Report Type D	Each RoLR (either as the new FRMP, as the new LR or both)

Report number	Report name	Recipient
ROLR_011	RoLR/LR Summary Report Type D	The Suspended Retailer (SR)
ROLR_012	RoLR/LR Summary Report Type E	Each MPB
ROLR_014	RoLR/LR NMI List - SR is LR	All relevant participants
ROLR_027	CRs to change FRMP still in progress for NMIs that have changed due to RoLR Event (by Jurisdiction)	Each Jurisdiction

8 FAQs

8.1 Why is AEMO updating the hazard field?

The approach for the hazard field update is still being determined.

8.2 When is the draft r46 schema be available?

24 April 2025.

8.3 How do I find the latest electricity schema?

There are two electricity schema types - B2B and B2M. You can find the latest aseXML schema in MSATS:

- B2M – In the **Participant > Participant schema** interface. See **View your B2M schema**.
- B2B – In **the B2B Browser > Transforms and Protocol** interface. See **B2B protocols**.

8.4 Is an aseXML schema version specific to either gas or electricity?

Yes, some versions do not apply to the gas or electricity market. Additionally, an electricity schema version can contain B2B and B2M changes, only B2B changes, or only B2M changes.

8.5 When does a participant receive the new LCCD value?

The LCCD update is an automated change triggered through specified CRs. When AEMO detects an NMI transitioning from a “Greenfield” (G) to “active” (A), a batch process is initiated to update the LCCD field. This field is in the completion notification for the Change Request.

8.6 Does the Change Request notification include the LCCD element when the NMI status updates from G to A?

The change in NMI status from greenfield (G) to active (A) is captured in the 5050/5051 Change Request. The 5050/5051 CATS notification includes the LCCD value on a COM status as shown in the example below.

```
<ChangeRequest>
   <Participant>ENGYPART</Participant>
   <RequestID>1441204352</RequestID>
   <ChangeStatusCode>COM</ChangeStatusCode>
   <ChangeData>
      <ChangeReasonCode>5051</ChangeReasonCode>
      <ActualChangeDate>2025-06-01</ActualChangeDate>
      <NMIStandingData xsi:type="ase:ElectricityStandingData"
version="r46">
         <NMI checksum="0">9990005230</NMI>
         <MasterData>
            <Status>A</Status>
            <LastConsumerChangeDate>2025-06-
01</LastConsumerChangeDate>
         </MasterData>
      </NMIStandingData>
   </ChangeData>
</ChangeRequest>
```

8.7 Why is the r46 aseXML schema being released on 26 October 2025 when one of the Rules effective dates is 1 December 2025?

To minimise impacts to all Market Participants, AEMO aims to only release one schema version per year. Participants are obligated to populate and maintain the LMRP field from 26 October 2025. Participants need to update their schema preferences to receive the LMRP values in any notifications. For help, see **Transition to aseXML**.

The schema also includes new and updated fields to support Rule changes effective from 1 December 2025. Participants can send r46 transactions with **B2B Procedures v3.9** elements prior to 1 December 2025 only if supported under a bilateral agreement.

8.8 How should participants send an address with 2 house numbers and 2 house number suffixes in B2B transactions between 26 October and 1 December 2025?

To comply with the B2B Procedures:

- From 26 October to 30 November 2025, participants can begin using aseXML r46 but must continue to use 2 instances of the BuildingOrPropertyName element (that is, maxOccurs=2) to represent primary and secondary complex names.
- From 1 December 2025, when the **B2B Procedure Technical Delivery Specification Process v3.9** takes effect, participants must use BuildingOrPropertyName and BuildingOrPropertyName2 to represent primary and secondary complex names.

- We plan to remove the maxOccurs=2 setting for BuildingOrPropertyName in the next schema release through the 2026 Flexible Trading Arrangements (FTA) initiative.

8.9 Have the aseXML schema enumerations for Flat Type and Street Type changed?

No. The Enumerations.xsd schema file includes comments describing the mapping of street types of values used in MSATS to the AS4590.1:2017 address standard.

8.10 Why is the 4060 CR being created?

The 4060 CR manages Embedded Network Child NMI datastreams. The new CR allows the MDP to prospectively activate and inactivate an existing datastream. Retrospective activation and inactivation are no longer allowed.

When creating a new Embedded Network Child NMI, the 4001 CR can still be used to retrospectively create the initial datastream. Once created, the 4060 CR maintains the datastream.

8.11 Why are Embedded Network Child NMIs only allowed to be prospectively changed?

Retrospective changes to Embedded Network Child NMIs cause settlement anomalies, affecting the settlement of the NEM. Removing retrospective activation and inactivation of Embedded Network Child NMI Datastreams eliminates this impact.

8.12 Are other NMIs affected by the new 4060 CR?

Existing NEM connected NMIs will still use the 4050 / 4051 CRs to retrospectively and prospectively activate NMI datastreams. The introduction of Secondary Settlements Points (SSPs) as part of the FTA Rules change does not allow retrospective datastream changes.

8.13 When do Site Defects details get removed in MSATS?

To assist participants in maintaining the Defect Flag, Defect Type and Defect Issuing MC fields, MSATS removes the values when a CR 3004 / 3005 or 3090 / 3091 is completed, a Basic or MRIM meter is removed, and a COMMS or MRAM meter is installed.

When the Site Defect values are removed, the PEND and COM notification includes the updated fields as shown in the following example.

```
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r46"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
```

```
xsi:schemaLocation="urn:aseXML:r46
http://www.nemmco.com.au/aseXML/schemas/r46/aseXML_r46.xsd">
  <Header>
    <From description="Australian Energy Market Operator
Limited">NEMMCO</From>
    <To description="Market Participant">MKTPART</To>
    <MessageID>NEMMCO-MSG-999112971</MessageID>
    <MessageDate>2025-03-25T02:38:08+10:00</MessageDate>
    <TransactionGroup>CATS</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>NEMMCOBATCH</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="NOTF-8888980297"
transactionDate="2025-03-25T00:12:03+10:00"
initiatingTransactionID="CAT888274387">
    <CATSNotification version="r29">
         <Role>NEM</Role>
         <RoleStatus>C</RoleStatus>
<ChangeRequest>
   <Participant>MKTPART</Participant>
   <RequestID>9991203710</RequestID>
   <ChangeStatusCode>PEND</ChangeStatusCode>
   <ChangeData>
      <ChangeReasonCode>3090</ChangeReasonCode>
      <ActualChangeDate>2025-03-24</ActualChangeDate>
      <NMIStandingData xsi:type="ase:ElectricityStandingData"
version="r46">
         <NMI checksum="7">5555449002</NMI>
         <MasterData>
            <DefectFlag xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
            <DefectType xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
            <DefectIssuingMC
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
         </MasterData>
         <DataStreams>
            <DataStream>
               <Suffix>E1</Suffix>
               <ProfileName>NOPROF</ProfileName>
               <AveragedDailyLoad>11</AveragedDailyLoad>
               <DataStreamType>Interval</DataStreamType>
               <Status>A</Status>
            </DataStream>
         </DataStreams>
         <MeterRegister>
            <Meter>
               <SerialNumber>MTR1234</SerialNumber>
               <InstallationTypeCode>MRIM</InstallationTypeCode>
               <Status>R</Status>
               <RegisterConfiguration>
```

```
                  <Register>
                     <RegisterID>001</RegisterID>
                     <NetworkTariffCode>NAST11</NetworkTariffCode>
                     <UnitOfMeasure>KWH</UnitOfMeasure>
                     <TimeOfDay>INTERVAL</TimeOfDay>
                     <Multiplier>1</Multiplier>
                     <DialFormat>5.1</DialFormat>
                     <Suffix>E1</Suffix>
                     <ControlledLoad>NO</ControlledLoad>
                     <ConsumptionType>Actual</ConsumptionType>
                     <Status>R</Status>
                  </Register>
               </RegisterConfiguration>
            </Meter>
            <Meter>
               <SerialNumber>COMMS1234</SerialNumber>
               <InstallationTypeCode>MRAM</InstallationTypeCode>
               <Use>AVERAGE</Use>
               <Manufacturer>METERMAN</Manufacturer>
               <Model>MODEL</Model>
               <Status>C</Status>
               <RegisterConfiguration>
                  <Register>
                     <RegisterID>E2</RegisterID>
                     <NetworkTariffCode>TARABC</NetworkTariffCode>
                     <UnitOfMeasure>KWH</UnitOfMeasure>
                     <TimeOfDay>INTERVAL</TimeOfDay>
                     <Multiplier>1</Multiplier>
                     <DialFormat>6.3</DialFormat>
                     <Suffix>E2</Suffix>
                     <ControlledLoad>NO</ControlledLoad>
                     <ConsumptionType>Actual</ConsumptionType>
                     <Status>C</Status>
                  </Register>
               </RegisterConfiguration>
            </Meter>
         </MeterRegister>
      </NMIStandingData>
   </ChangeData>
</ChangeRequest>
<JurisdictionCode>VIC</JurisdictionCode>
<NMIClassificationCode>LARGE</NMIClassificationCode>
<ObjectionEndDate>2025-03-24</ObjectionEndDate>
</CATSNotification>
    </Transaction>
    <Transaction transactionID="NOTF-8888980309"
transactionDate="2025-03-25T00:12:10+10:00"
initiatingTransactionID="CAT888274387">
    <CATSNotification version="r29">
         <Role>NEM</Role>
         <RoleStatus>C</RoleStatus>
<ChangeRequest>
   <Participant>MARKPART</Participant>
```

```
   <RequestID>9991203710</RequestID>
   <ChangeStatusCode>COM</ChangeStatusCode>
   <ChangeData>
      <ChangeReasonCode>3090</ChangeReasonCode>
      <ActualChangeDate>2025-03-24</ActualChangeDate>
      <NMIStandingData xsi:type="ase:ElectricityStandingData"
version="r46">
         <NMI checksum="7">5555449002</NMI>
         <MasterData>
            <DefectFlag xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
            <DefectType xmlns:xsi="http://www.w3.org/2001/XMLSchema-
instance" xsi:nil="true"/>
            <DefectIssuingMC
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:nil="true"/>
         </MasterData>
         <DataStreams>
            <DataStream>
               <Suffix>E1</Suffix>
               <ProfileName>NOPROF</ProfileName>
               <AveragedDailyLoad>11</AveragedDailyLoad>
               <DataStreamType>Interval</DataStreamType>
               <Status>A</Status>
            </DataStream>
         </DataStreams>
         <MeterRegister>
            <Meter>
               <SerialNumber>MET1234</SerialNumber>
               <InstallationTypeCode>MRIM</InstallationTypeCode>
               <Status>R</Status>
               <RegisterConfiguration>
                  <Register>
                     <RegisterID>001</RegisterID>
                     <NetworkTariffCode>TARABC</NetworkTariffCode>
                     <UnitOfMeasure>KWH</UnitOfMeasure>
                     <TimeOfDay>INTERVAL</TimeOfDay>
                     <Multiplier>1</Multiplier>
                     <DialFormat>5.1</DialFormat>
                     <Suffix>E1</Suffix>
                     <ControlledLoad>NO</ControlledLoad>
                     <ConsumptionType>Actual</ConsumptionType>
                     <Status>R</Status>
                  </Register>
               </RegisterConfiguration>
            </Meter>
            <Meter>
               <SerialNumber>COMMS1234</SerialNumber>
               <InstallationTypeCode>MRAM</InstallationTypeCode>
               <Use>AVERAGE</Use>
               <Manufacturer>METERMAN</Manufacturer>
               <Model>MODEL</Model>
               <Status>C</Status>
               <RegisterConfiguration>
```

```
                    <Register>
                       <RegisterID>E2</RegisterID>
                       <NetworkTariffCode>TARABC</NetworkTariffCode>
                       <UnitOfMeasure>KWH</UnitOfMeasure>
                       <TimeOfDay>INTERVAL</TimeOfDay>
                       <Multiplier>1</Multiplier>
                       <DialFormat>6.3</DialFormat>
                       <Suffix>E2</Suffix>
                       <ControlledLoad>NO</ControlledLoad>
                       <ConsumptionType>Actual</ConsumptionType>
                       <Status>C</Status>
                    </Register>
                 </RegisterConfiguration>
              </Meter>
           </MeterRegister>
        </NMIStandingData>
     </ChangeData>
</ChangeRequest>
<JurisdictionCode>VIC</JurisdictionCode>
<NMIClassificationCode>LARGE</NMIClassificationCode>
<ObjectionEndDate>2025-03-24</ObjectionEndDate>
</CATSNotification>
    </Transaction>
  </Transactions>
</ase:aseXML>
```

8.14 Is the transition to the updated Meter Exemptions API mandatory on the 1 December 2025, and what are the changes to the fields?

Yes, the transition to the updated Meters Exemptions API is on 1 December 2025. It caters for the new malfunction exemption types, a Documentation provided field, and Substitution method field to provide the substitution method when a substitution is required. For details about the changes, see **Meter Exemptions**.

9 Implementation

9.1 Transition

See **aseXML r46**.

9.2 Upgrade options

Option 1

- Update local processes and technical interfaces to suit the changes.

Option 2

- If changes are irrelevant to participants' business processes and technical interfaces, ignore this release.

9.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

9.4 Risks

Participants do not receive the new B2M and B2B aseXML schema fields unless they upgrade to r46.

10 Terms

10.1 Rules Terms

You can find the following terms defined in the **National Electricity Rules (NER)** and the **Settlements Residue Auction Rules**.

Term
AEMO
AEMO Markets Portal
AEMO Website
Market Participants
Maximum Units
NEM
Product
Region
Regional reference prices
Registered Participant

10.2 Glossary

You can find a full list of AEMO glossary terms in **Industry Terminology** on AEMO's website.

Abbreviation/Term	Explanation
AEST	Australian Eastern Standard Time
ADL	Accumulated Daily Load (ADL)
B2B	Business-to-business
B2M	Business-to-market
CT	Current transformer
DNSP	Distribution Network Service Provider
ERCF	Electricity Retail Change Forum
EMMS	Electricity Market Management System; software, hardware, network, and related processes to implement the wholesale energy market
ENM	Embedded Network Manager
FCAS	Frequency Control Ancillary Services
FRMP	Financially Responsible Market Participant
HV	High voltage
ICF	Industry Change Form
ITWG	IT Working Group
LCCD	Last Consumer Change Date
LNSP	Local network service provider
LMRP	Legacy meter replacement plan
LV	Low Voltage
MC	Meter Coordinator
MP	Metering Provider
MDP	Metering Data Provider
MITC	Meter Installation Type Code

Abbreviation/Term	Explanation
MSATS	Market Settlement and Transfer Solution for retail electricity
MSR	Metering Services Review
MW	Megawatt
NER	National Electricity Rules
One In All In	A process where all meters on a shared fuse arrangement are upgraded at the same time
PQD	Power Quality Data. Smart meter data including volts, amps, and phase angle delivered to DNSP
Release	MSATS - Technical Specification - October 2025
Release Dates	Pre-production: Tuesday 2 September 2025, Tuesday 30 September 2025 Production: Sunday 26 October 2025, Sunday 30 November 2025
ROLR	Retailers of Last Resort
SR	Suspender Retailer
TBC	To be confirmed

11 References

Guide to AEMO's e-Hub APIs: Provides details about using AEMO's e-Hub as an interface to communicate information with AEMO. It assists Wholesale electricity and gas participants developing their own APIs.

Guide to Information Systems: Provides guidance for *Registered Participants* and interested parties about AEMO's participant electricity market systems.

Guide to User Rights Management: Assists participant administrators (PAs) to use the user rights management functions in the MSATS Web Portal.

Retail Electricity Market Glossary and Framework: assist participants of the Retail Electricity Market to understand the overall framework. It also contains a list of terms used in the Retail Electricity Market Procedures and a full list of NEM procedures, guidelines, and documents.

A1. aseXML r46 Files and Changes

Schema files

Schema Release r46

aseXML_r46.xsd

Rename the changed file version to aseXML_r46.xsd.

```
<xsd:schema xmlns="urn:aseXML:r46"
xmlns:xsd="http://www.w3.org/2001/XMLSchema"
xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
targetNamespace="urn:aseXML:r46" version="r46"
xsi:schemaLocation="urn:aseXML:r46 aseXML_r46.xsd">
<xsd:include schemaLocation="CATSTableReplication_r46.xsd">
<xsd:include schemaLocation="ClientInformation_r46.xsd">
<xsd:include schemaLocation="Common_r46.xsd">
<xsd:include schemaLocation="Electricity_r46.xsd">
<xsd:include schemaLocation="ElectricityMasterStandingData_r46.xsd"/>
<xsd:include schemaLocation="Events_r46.xsd">
<xsd:include schemaLocation="OneWayNotification_r46.xsd">
```

CATSTableReplication_r46.xsd

- Update ElectricityNMIMasterRow, ElectricityNMIMasterRowBDT, and ElectricityCATSChangeRequestNMIMasterRow version attribute from r43 to r46.

```
<!-- Electricity NMI Standing Data Replication Row Types -->
  <xsd:complexType name="ElectricityNMIMasterRow">
        <xsd:annotation>
              <xsd:documentation>
Purpose - Row of the Electricity NMI Master Standing Data table
MSATS Data Model Table - CATS_NMI_Data
Replication Table Name - ElectricityNMIMaster
              </xsd:documentation>
        </xsd:annotation>
        <xsd:complexContent>
              <xsd:extension base="ReplicationDateRangeRow">
                    <xsd:sequence>
                          <xsd:element name="NMI" type="NMIBase"/>
                          <xsd:group ref="ElectricityNMIMasterGroup"/>
                    </xsd:sequence>
                    <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
              </xsd:extension>
        </xsd:complexContent>
  </xsd:complexType>

<!-- BDT Row Types -->
  <xsd:complexType name="ElectricityNMIMasterRowBDT">
        <xsd:annotation>
              <xsd:documentation>
Purpose - Row of the Electricity NMI Master Standing Data table
extended by BDTStatus and Event for Bulk Data Tool
MSATS Data Model Table - CATS_NMI_Data
Replication Table Name - ElectricityNMIMaster
              </xsd:documentation>
        </xsd:annotation>
        <xsd:complexContent>
              <xsd:extension base="ReplicationDateRangeRow">
                    <xsd:sequence>
                          <xsd:group ref="ElectricityNMIMasterGroup"/>
                          <xsd:element name="BDTStatus" type="BDTStatus"
minOccurs="0"/>
                          <xsd:element name="Event" type="Event"
minOccurs="0" maxOccurs="unbounded"/>
                    </xsd:sequence>
                    <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
              </xsd:extension>
        </xsd:complexContent>
  </xsd:complexType>

<xsd:complexType name="ElectricityCATSChangeRequestNMIMasterRow">
        <xsd:annotation>
              <xsd:documentation>
Purpose - Row of the Electricity CATS Change Request NMI Master
Standing Data table
MSATS Data Model Table - CATS_Inbound_NMI_Data
Replication Table Name - ElectricityCATSChangeRequestNMIMaster
```

```
            </xsd:documentation>
        </xsd:annotation>
        <xsd:complexContent>
            <xsd:extension base="ReplicationBaseRow">
                <xsd:sequence>
                    <xsd:element name="RequestID"
type="CATSRequestIdentifier"/>
                    <xsd:group ref="ElectricityNMIMasterGroup"/>
                </xsd:sequence>
                <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
            </xsd:extension>
        </xsd:complexContent>
</xsd:complexType>
```

- Rename the changed file version to CATSTableReplication_r46.xsd

ClientInformation_r46.xsd

- Update BuildingOrPropertyName element length from 30 to 50 characters
- Update AustralianStreetName element length from 30 to 45 characters

```
<xsd:simpleType name="AustralianBuildingOrPropertyName">
        <xsd:annotation>
            <xsd:documentation>
Purpose - Define building or property name as per Australian Standard
AS4590
    </xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:minLength value="1"/>
            <xsd:maxLength value="50"/>
        </xsd:restriction>
    </xsd:simpleType>

<xsd:simpleType name="AustralianStreetName">
        <xsd:annotation>
            <xsd:documentation>
Purpose - Define street name as per Australian Standard AS4590
  </xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:pattern value="[\p{L}\p{N}\s\-']{1,45}"/>
        </xsd:restriction>
  </xsd:simpleType>
```

- Add BuildingOrPropertyName2 element to existing complex types AustralianStructuredAddressComponents and AustralianStructuredAddressPartialComponents

The maxOccurs value for BuildingOrPropertyName under AustralianStructuredAddressComponents complex type is retained for submitting two BuildingOrPropertyName values up until 30 November 2025. For more information, see BuildingOrPropertyName element transition

```
<xsd:complexType name="AustralianStructuredAddressPartialComponents">
        <xsd:sequence>
            <xsd:element name="FlatOrUnit" minOccurs="0">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="FlatOrUnitType"
type="AustralianFlatOrUnitType" nillable="true" minOccurs="0"/>
                        <xsd:element name="FlatOrUnitNumber"
type="AustralianFlatOrUnitNumber" nillable="true" minOccurs="0"/>
                    </xsd:sequence>
                </xsd:complexType>
            </xsd:element>
            <xsd:element name="FloorOrLevel" minOccurs="0">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="FloorOrLevelType"
type="AustralianFloorOrLevelType" nillable="true" minOccurs="0"/>
                        <xsd:element name="FloorOrLevelNumber"
type="AustralianFloorOrLevelNumber" nillable="true" minOccurs="0"/>
                    </xsd:sequence>
                </xsd:complexType>
            </xsd:element>
            <xsd:element name="BuildingOrPropertyName"
type="AustralianBuildingOrPropertyName" nillable="true" minOccurs="0"
maxOccurs="2" />
            <xsd:element name="BuildingOrPropertyName2"
type="AustralianBuildingOrPropertyName" nillable="true"
minOccurs="0"/>
            <xsd:element name="LocationDescriptor"
type="AustralianLocationDescriptor" nillable="true" minOccurs="0"/>
       <xsd:element name="House" minOccurs="0" maxOccurs="2">
<xsd:complexType>

.
.
.
<xsd:complexType name="AustralianStructuredAddressComponents">
        <xsd:sequence>
            <xsd:element name="FlatOrUnit" minOccurs="0">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="FlatOrUnitType"
type="AustralianFlatOrUnitType" nillable="true"/>
                        <xsd:element name="FlatOrUnitNumber"
type="AustralianFlatOrUnitNumber" nillable="true"/>
                    </xsd:sequence>
                </xsd:complexType>
            </xsd:element>
            <xsd:element name="FloorOrLevel" minOccurs="0">
                <xsd:complexType>
                    <xsd:sequence>
                        <xsd:element name="FloorOrLevelType"
type="AustralianFloorOrLevelType" nillable="true"/>
```

```
                        <xsd:element name="FloorOrLevelNumber"
type="AustralianFloorOrLevelNumber" nillable="true" minOccurs="0"/>
                    </xsd:sequence>
                </xsd:complexType>
            </xsd:element>
            <xsd:element name="BuildingOrPropertyName"
type="AustralianBuildingOrPropertyName" nillable="true"
minOccurs="0"/>
            <xsd:element name="BuildingOrPropertyName2"
type="AustralianBuildingOrPropertyName" nillable="true"
minOccurs="0"/>
            <xsd:element name="LocationDescriptor"
type="AustralianLocationDescriptor" nillable="true" minOccurs="0"/>
            <xsd:element name="House" minOccurs="0" maxOccurs="2">
                <xsd:complexType>
```

- Rename the changed file version to ClientInformation_r46.xsd

Common_r46.xsd

- Increase HazardDescription element length from 80 to 100 characters.

```
<xsd:simpleType name="HazardDescription">
    <xsd:restriction base="xsd:string">
        <xsd:maxLength value="100"/>
    </xsd:restriction>
</xsd:simpleType>
```

- Rename the changed file version to Common_r46.xsd

Electricity_r46.xsd

- Add new element DefectFlag as string type with length=1

```
<xsd:simpleType name="DefectFlag">
       <xsd:annotation>
            <xsd:documentation>
Purpose - Flag to indicate if the metering coordinator encounter
customer-site defects preventing meter exchanges
            </xsd:documentation>
       </xsd:annotation>
       <xsd:restriction base="xsd:string">
            <xsd:maxLength value="1"/>
       </xsd:restriction>
  </xsd:simpleType>
```

- Add new element DefectType as string type with length=15

```
<xsd:simpleType name="DefectType">
       <xsd:annotation>
            <xsd:documentation>
Purpose - Indicates what type of customer-site defect which prevents
meter exchanges encountered by the metering coordinator
            </xsd:documentation>
       </xsd:annotation>
       <xsd:restriction base="xsd:string">
            <xsd:maxLength value="15"/>
       </xsd:restriction>
  </xsd:simpleType>
```

- Add 3 new ServiceOrderSubType - Install Meter Isolation Device, Temporary Isolation-Scoping Request, and Temporary Isolation-One In All In

```
<xsd:simpleType name="ServiceOrderSubType">
	<xsd:annotation>
		<xsd:documentation>Purpose - Defines a list of valid
Service Order types supported by the particpants</xsd:documentation>
	</xsd:annotation>
	<xsd:restriction base="xsd:string">
		<xsd:enumeration value="After Disconnection For Non-
Payment"/>
		<xsd:enumeration value="Remove Fuse"/>
		<xsd:enumeration value="Disconnect at Pillar-Box Pit Or
Pole-Top"/>
		<xsd:enumeration value="Install Controlled Load"/>
		<xsd:enumeration value="Move Meter"/>
		<xsd:enumeration value="Install Meter"/>
		<xsd:enumeration value="Install Meter Isolation Device"/>
		<xsd:enumeration value="Remove Meter"/>
		<xsd:enumeration value="Exchange Meter"/>
		<xsd:enumeration value="Check Read"/>
		<xsd:enumeration value="Final Read"/>
		<xsd:enumeration value="Allocate NMI"/>
		<xsd:enumeration value="Establish Permanent Supply"/>
		<xsd:enumeration value="Establish Temporary Supply"/>
		<xsd:enumeration value="Establish Temporary In
Permanent"/>
		<xsd:enumeration value="Local Meter Disconnection"/>
		<xsd:enumeration value="Meter Investigation-Inspect"/>
		<xsd:enumeration value="Meter Investigation-Test"/>
		<xsd:enumeration value="Meter Reconfiguration"/>
		<xsd:enumeration value="Recipient Discretion"/>
		<xsd:enumeration value="Remote"/>
		<xsd:enumeration value="Supply Abolishment"/>
		<xsd:enumeration value="Supply Alteration"/>
		<xsd:enumeration value="Tariff Change"/>
		<xsd:enumeration value="Temporary Isolation"/>
		<xsd:enumeration value="Temporary Isolation-Group
Supply"/>
		<xsd:enumeration value="Temporary Isolation-Scoping
Request"/>
		<xsd:enumeration value="Temporary Isolation-One In All
In"/>
		<xsd:enumeration value="Change Timeswitch Settings"/>
		<xsd:enumeration value="Reseal Device"/>
		<xsd:enumeration value="Retrospective Move-in"/>
		<xsd:enumeration value="Move-in"/>
		<xsd:enumeration value="New Reading Required"/>
		<xsd:enumeration value="Physical Visit"/>
	</xsd:restriction>
 </xsd:simpleType>
```

- Add enumerated values for SORDResponseCode to support MP-initiated Service Orders Responses for defects and One In All In.

```
<xsd:simpleType name="SORDResponseCode">
        <xsd:annotation>
            <xsd:documentation>Purpose - Defines a list of valid
response code for different types of service
orders</xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:enumeration value="Customer On-Site"/>
            <xsd:enumeration value="Customer Prevented"/>
            <xsd:enumeration value="De-energisation Not Completed Due
To A Re-energisation"/>
            <xsd:enumeration value="Documentation Not Provided"/>
            <xsd:enumeration value="Metering Problem"/>
            <xsd:enumeration value="Meter Reading Only Undertaken Due
To Prior Re-energisation"/>
            <xsd:enumeration value="New Customer On-Site"/>
            <xsd:enumeration value="No Supply"/>
            <xsd:enumeration value="Other"/>
            <xsd:enumeration value="Reading Problem"/>
            <xsd:enumeration value="Request Submitted By Another
Initiator"/>
            <xsd:enumeration value="Initiator Cancellation"/>
            <xsd:enumeration value="Sensitive Load"/>
            <xsd:enumeration value="Recipient Cancellation"/>
            <xsd:enumeration value="Unable To Access"/>
            <xsd:enumeration value="Unknown Load"/>
            <xsd:enumeration value="Unsafe"/>
            <xsd:enumeration value="Tariff Change Not Approved"/>
            <xsd:enumeration value="Inadequate infrastructure"/>
            <xsd:enumeration value="No Comms"/>
            <xsd:enumeration value="Life Support"/>
            <xsd:enumeration value="Meter Not Retrieved"/>
            <xsd:enumeration value="Metering not compatible with
proposed Tariff Change"/>
            <xsd:enumeration value="Shared Supply Point"/>
            <xsd:enumeration value="Site Already Energised"/>
            <xsd:enumeration value="Unknown Connection Status"/>
            <xsd:enumeration value="Defect"/>
          <xsd:enumeration value="Appointment Required"/>
            <xsd:enumeration value="Comms Refused"/>
            <xsd:enumeration value="Coordination Failure"/>
            <xsd:enumeration value="Demolished"/>
            <xsd:enumeration value="Dog"/>
            <xsd:enumeration value="Incorrect Service Order"/>
            <xsd:enumeration value="Mismatch with Standing Data"/>
            <xsd:enumeration value="Natural Event"/>
            <xsd:enumeration value="No Access - Network Support
Required"/>
            <xsd:enumeration value="No Adult Present"/>
            <xsd:enumeration value="Not FRMP"/>
            <xsd:enumeration value="Obstruction"/>
            <xsd:enumeration value="Shared Fuse - Scoping Required"/>
            <xsd:enumeration value="Site Not Ready"/>
```

```
            <xsd:enumeration value="Unable To Isolate"/>
            <xsd:enumeration value="Unable To Locate Site"/>
        </xsd:restriction>
    </xsd:simpleType>
```

- Update version attribute of ElectricityServiceOrderType and ElectricityServiceOrderNotificationData elements from r36 to r46.
- Update version attribute of ElectricityServiceOrderDetails element from r41 to r46

```
<xsd:complexType name="ElectricityServiceOrderType">
	<xsd:complexContent>
		<xsd:extension base="ServiceOrderTypeBase">
			<xsd:sequence>
				<xsd:element name="WorkType">
					<xsd:complexType>
						<xsd:simpleContent>
							<xsd:extension
base="ServiceOrderType">
<xsd:attribute
name="workSubType" type="ServiceOrderSubType" use="optional"/>
</xsd:extension>
</xsd:simpleContent>
</xsd:complexType>
</xsd:element>
</xsd:sequence>
<xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
		</xsd:extension>
	</xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="ElectricityServiceOrderDetails">
	<xsd:annotation>
		<xsd:documentation>Purpose - Defines the data type for
new connection and meter additions and alterations
		v36.1.  WL.  Change LifeSupport to be optional field.
		</xsd:documentation>
	</xsd:annotation>
	<xsd:complexContent>
		<xsd:extension base="ServiceOrderRequestData">
			<xsd:sequence>
				<xsd:element
name="CustomerConsultationRequired" type="xsd:boolean"/>
<xsd:element name="InstallationType"
type="InstallationType" minOccurs="0"/>
<xsd:element name="SupplyPhase"
type="SupplyPhase" minOccurs="0"/>
<xsd:element name="AverageDailyLoad"
type="AveragedDailyLoad" minOccurs="0"/>
<xsd:element name="CustomerType"
type="CustomerType" minOccurs="0"/>
<xsd:element name="MeteringType"
type="MeteringType" minOccurs="0"/>
<xsd:element name="OffPeakRequirements"
type="SpecialComments" minOccurs="0"/>
<xsd:element name="MaximumDemand"
type="MeterDemand" minOccurs="0"/>
<xsd:element name="ServiceTime"
type="ServiceTimeType" minOccurs="0"/>
<xsd:element name="SwitchingServiceRequired"
type="SwitchingServiceRequired" minOccurs="0"/>
<xsd:element name="ConfirmedDe-energisation"
type="xsd:boolean" minOccurs="0"/>
```

```
                        <xsd:element name="License" type="License"
minOccurs="0"/>
                        <xsd:element name="MeterLicense" type="License"
minOccurs="0"/>
                        <xsd:element name="De-energisationReason"
type="De-energisationReason" minOccurs="0"/>
                        <xsd:element name="LifeSupport" type="YesNo"
minOccurs="0"/>
                        <xsd:element name="Co-ordinationRequired"
type="YesNo" minOccurs="0"/>
                        <xsd:element name="RegClassification"
type="RegClassification" minOccurs="0"/>
                        <xsd:element name="PurposeOfRequest"
type="PurposeOfRequest" minOccurs="0"/>
                        <xsd:element name="Escalation"
type="Escalation" minOccurs="0"/>
                        <xsd:element name="ExemptionCode"
type="xsd:string" minOccurs="0"/>
                  </xsd:sequence>
                  <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
            </xsd:extension>
      </xsd:complexContent>
  </xsd:complexType>
  <xsd:complexType name="ElectricityServiceOrderNotificationData">
      <xsd:annotation>
            <xsd:documentation>Schema -
Electricity</xsd:documentation>
      </xsd:annotation>
      <xsd:complexContent>
            <xsd:extension base="ServiceOrderNotificationData">
                  <xsd:sequence>
                        <xsd:element name="ServiceOrderStatus"
type="ServiceOrderStatus"/>
                        <xsd:element name="ResponseCode"
type="SORDResponseCode" minOccurs="0"/>
                        <xsd:element name="ActualDateTime"
type="xsd:dateTime"/>
                        <xsd:element name="Product" type="Product"/>
                  </xsd:sequence>
                  <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
            </xsd:extension>
      </xsd:complexContent>
  </xsd:complexType>
```

- Update version attribute of ElectricityStandingData element from r43 to r46.

```
<xsd:complexContent>
                  <xsd:extension base="NMIStandingData">
                        <xsd:sequence>
                              <xsd:element name="MasterData"
type="ElectricityMasterStandingData" minOccurs="0"/>
                              <xsd:element name="RoleAssignments"
type="RoleAssignments" minOccurs="0"/>
                              <xsd:element name="DataStreams"
type="ElectricityDataStreams" minOccurs="0"/>
                              <xsd:element name="MeterRegister"
type="ElectricityMeters" minOccurs="0"/>
                  </xsd:sequence>
                  <xsd:attribute name="version" type="r46"
use="optional" default="r46"/>
                  </xsd:extension>
</xsd:complexContent>
```

- Increase FormNumber element length from 15 to 20 characters.
- Reduce FormReference element length from 30 to 20 characters.

```
<xsd:complexType name="DocumentReferenceType">
        <xsd:sequence>
            <xsd:element name="FormReference" minOccurs="0">
                <xsd:simpleType>
                    <xsd:restriction base="xsd:string">
                        <xsd:maxLength value="20"/>
                    </xsd:restriction>
                </xsd:simpleType>
            </xsd:element>
            <xsd:element name="FormNumber" minOccurs="0">
                <xsd:simpleType>
                    <xsd:restriction base="xsd:string">
                        <xsd:maxLength value="20"/>
                    </xsd:restriction>
                </xsd:simpleType>
            </xsd:element>
        </xsd:sequence>
    </xsd:complexType>SORD
```

- Rename the changed file version to Electricity_r46.xsd.

ElectricityEnumerations.xsd

- Add Remediation Advised enumeration to the PurposeOfRequest element.
- Add enumerations Family Failure, LMRP, and One In All In to the RegClassification element.

```
<xsd:simpleType name="RegClassification">
        <xsd:annotation>
            <xsd:documentation>
                Purpose - Use to indicate whether it is customer
Initiated and regulatory timeframes apply, or not.
            Version 1.0 additions
            - Customer Initiated
            - Malfunction
            - New Meter Deployment
            - Shared Fuse
            - Other

            Version 2.0 additions
            - Family Failure
            - LMRP
            - One In All In
            </xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:maxLength value="40"/>
            <xsd:enumeration value="Customer Initiated"/>
            <xsd:enumeration value="Family Failure"/>
            <xsd:enumeration value="LMRP"/>
            <xsd:enumeration value="Malfunction"/>
            <xsd:enumeration value="New Meter Deployment"/>
            <xsd:enumeration value="One In All In"/>
            <xsd:enumeration value="Shared Fuse"/>
            <xsd:enumeration value="Other"/>
        </xsd:restriction>
    </xsd:simpleType>
    <xsd:simpleType name="PurposeOfRequest">
        <xsd:annotation>
            <xsd:documentation>
                Purpose - Used to clearly indicate the purpose of
visit
            Version 1.0 additions
            - New connection
            - Additional Meter
            - Part of BTS Temp to Perm
            - Part of supply alteration
            - Bidirectional flows at premises
            - Bypassed Customer
            - Communications Remove
            - Communications Install
            - Revenue Protection
            - Site Abolishment
            - Family Failure
            - Fault
            - Retailer Led
            - None
            - Other

            Version 2.0 addition
```

```
            - Remediation Advised

            Version 2.0 deletion
            - Family Failure
            </xsd:documentation>
        </xsd:annotation>
        <xsd:restriction base="xsd:string">
            <xsd:maxLength value="40"/>
            <xsd:enumeration value="New connection"/>
            <xsd:enumeration value="Additional Meter"/>
            <xsd:enumeration value="Part of BTS Temp to Perm"/>
            <xsd:enumeration value="Part of supply alteration"/>
            <xsd:enumeration value="Bidirectional flows at premises"/>
            <xsd:enumeration value="Bypassed Customer"/>
            <xsd:enumeration value="Communications Remove"/>
            <xsd:enumeration value="Communications Install"/>
            <xsd:enumeration value="Revenue Protection"/>
            <xsd:enumeration value="Site Abolishment"/>
            <xsd:enumeration value="Fault"/>
            <xsd:enumeration value="Remediation Advised"/>
            <xsd:enumeration value="Retailer Led"/>
            <xsd:enumeration value="None"/>
            <xsd:enumeration value="Other"/>
        </xsd:restriction>
    </xsd:simpleType>
```

- Add One In All In to the enumerated list for ReasonForNotice element.

```
<xsd:simpleType name="ReasonForNotice">
       <xsd:annotation>
             <xsd:documentation>
                   Purpose - Define the fixed Reasons for Notice
             Version 1.0 additions
             - Meter Family Failure
             - Accuracy Failure
             - Timeswitch/Controlled Load Failure
             - Contactor Failure
             - No Display
             - Communication Failure
             - Meter Verification
             - Malfunction
             - Area Event
             - Metrology Threshold Breach
             - Meter Bypassed
             - Physical Damage
             - Theft/Tampering
             - Other
             Version 2.0 additions
             - One In All In
             </xsd:documentation>
       </xsd:annotation>
       <xsd:restriction base="xsd:string">
             <xsd:maxLength value="50"/>
             <xsd:enumeration value="Meter Family Failure"/>
             <xsd:enumeration value="Accuracy Failure"/>
             <xsd:enumeration value="Timeswitch/Controlled Load
Failure"/>
             <xsd:enumeration value="Contactor Failure"/>
             <xsd:enumeration value="No Display"/>
             <xsd:enumeration value="Communication Failure"/>
             <xsd:enumeration value="Meter Verification"/>
             <xsd:enumeration value="Malfunction"/>
             <xsd:enumeration value="One In All In"/>
             <xsd:enumeration value="Area Event"/>
             <xsd:enumeration value="Metrology Threshold Breach"/>
             <xsd:enumeration value="Meter Bypassed"/>
             <xsd:enumeration value="Physical Damage"/>
             <xsd:enumeration value="Theft/Tampering"/>
             <xsd:enumeration value="Other"/>
       </xsd:restriction>
 </xsd:simpleType>
```

ElectricityMasterStandingData_r46.xsd

- Add elements LegacyMtrReplacementPlan, DefectFlag, DefectType, and DefectIssuingMC to ElectricityNMIMasterGroup group and ElectricityMasterStandingData type.

```
    <xsd:group name="ElectricityNMIMasterGroup">
        <xsd:annotation>
            <xsd:documentation>
Purpose - Common NMI Master elements across Standing Data and Change
Requests
            </xsd:documentation>
        </xsd:annotation>
        <xsd:sequence>
            <xsd:element name="JurisdictionCode"
type="JurisdictionCode" nillable="true" minOccurs="0"/>
            <xsd:element name="NMIClassificationCode"
type="NMIClassificationCode" nillable="true" minOccurs="0"/>
            <xsd:element name="TransmissionNodeIdentifier"
type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="DistributionLossFactorCode"
type="DistributionLossFactorCode" nillable="true" minOccurs="0"/>
            <xsd:element name="ParentEmbeddedNetworkIdentifier"
type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="ChildEmbeddedNetworkIdentifier"
type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="Address"
type="AustralianPartialAddress" nillable="true" minOccurs="0"/>
            <xsd:element name="Aggregate" type="YesNo" nillable="true"
minOccurs="0"/>
            <xsd:element name="Status" type="NMIStatusCode"
nillable="true" minOccurs="0"/>
            <xsd:element name="FlatOrUnitType"
type="AustralianFlatOrUnitType" nillable="true" minOccurs="0"/>
            <xsd:element name="FlatOrUnitNumber"
type="AustralianFlatOrUnitNumber" nillable="true" minOccurs="0"/>
            <xsd:element name="FloorOrLevelType"
type="AustralianFloorOrLevelType" nillable="true" minOccurs="0"/>
            <xsd:element name="FloorOrLevelNumber"
type="AustralianFloorOrLevelNumber" nillable="true" minOccurs="0"/>
            <xsd:element name="BuildingOrPropertyName"
type="AustralianBuildingOrPropertyName" nillable="true"
minOccurs="0"/>
            <xsd:element name="BuildingOrPropertyName2"
type="AustralianBuildingOrPropertyName" nillable="true"
minOccurs="0"/>
            <xsd:element name="LocationDescriptor"
type="AustralianLocationDescriptor" nillable="true" minOccurs="0"/>
            <xsd:element name="HouseNumber"
type="AustralianHouseNumber" nillable="true" minOccurs="0"/>
            <xsd:element name="HouseNumberSuffix"
type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>
            <xsd:element name="HouseNumberTo"
type="AustralianHouseNumber" nillable="true" minOccurs="0"/>
            <xsd:element name="HouseNumberToSuffix"
type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>
            <xsd:element name="HouseNumber2"
type="AustralianHouseNumber" nillable="true" minOccurs="0"/>
```

```
            <xsd:element name="HouseNumber2Suffix"
type="AustralianHouseNumberSuffix" nillable="true" minOccurs="0"/>
            <xsd:element name="LotNumber" type="AustralianLotNumber"
nillable="true" minOccurs="0"/>
            <xsd:element name="SectionNumber" type="SectionNumber"
nillable="true" minOccurs="0"/>
            <xsd:element name="DPNumber" type="DepositedPlanNumber"
nillable="true" minOccurs="0"/>
            <xsd:element name="StreetName" type="AustralianStreetName"
nillable="true" minOccurs="0"/>
            <xsd:element name="StreetType" type="AustralianStreetType"
nillable="true" minOccurs="0"/>
            <xsd:element name="StreetSuffix"
type="AustralianStreetSuffix" nillable="true" minOccurs="0"/>
            <xsd:element name="AddressLine1"
type="AustralianAddressLine" nillable="true" minOccurs="0"/>
            <xsd:element name="AddressLine2"
type="AustralianAddressLine" nillable="true" minOccurs="0"/>
            <xsd:element name="AddressLine3"
type="AustralianAddressLine" nillable="true" minOccurs="0"/>
            <xsd:element name="SuburbOrPlaceOrLocality"
type="AustralianSuburbOrPlaceOrLocality" nillable="true"
minOccurs="0"/>
            <xsd:element name="StateOrTerritory"
type="AustralianStateOrTerritory" nillable="true" minOccurs="0"/>
            <xsd:element name="PostCode" type="AustralianPostCode"
nillable="true" minOccurs="0"/>
            <xsd:element name="DeliveryPointIdentifier"
type="AustralianDeliveryPointIdentifier" nillable="true"
minOccurs="0"/>
            <xsd:element name="GNAFPID"
type="GeocodedNationalAddressFilePersistentIdentifier" nillable="true"
minOccurs="0"/>
            <xsd:element name="DistanceFromSubstation"
type="DistanceFromSubstation" nillable="true" minOccurs="0"/>
            <xsd:element name="VoltageType" type="VoltageType"
nillable="true" minOccurs="0"/>
            <xsd:element name="PoleNumber" type="PoleNumber"
nillable="true" minOccurs="0"/>
            <xsd:element name="AccessDetails" type="AccessDetail"
nillable="true" minOccurs="0"/>
            <xsd:element name="FeederClass" type="FeederClass"
nillable="true" minOccurs="0"/>
            <xsd:element name="CustomerClassificationCode"
type="EMSDCustomerClassificationCode" nillable="true" minOccurs="0"/>
            <xsd:element name="CustomerThresholdCode"
type="EMSDCustomerThresholdCode" nillable="true" minOccurs="0"/>
            <xsd:element name="TransmissionNodeIdentifier2"
type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="SharedIsolationPointFlag"
type="SharedIsolationPointFlag" nillable="true" minOccurs="0"/>
            <xsd:element name="MeterMalfunctionExemptionNumber"
type="MeterMalfunctionExemptionNumber" nillable="true" minOccurs="0"/>
```

```
            <xsd:element name="MeterMalfunctionExemptionExpiryDate"
type="xsd:date" nillable="true" minOccurs="0"/>
            <xsd:element name="ConnectionConfiguration"
type="ConnectionConfiguration" nillable="true" minOccurs="0"/>
            <xsd:element name="LastConsumerChangeDate" type="xsd:date"
nillable="true" minOccurs="0"/>
            <xsd:element name="LegacyMtrReplacementPlan"
type="xsd:date" nillable="true" minOccurs="0"/>
            <xsd:element name="DefectFlag" type="DefectFlag"
nillable="true" minOccurs="0"/>
            <xsd:element name="DefectType" type="DefectType"
nillable="true" minOccurs="0"/>
            <xsd:element name="DefectIssuingMC" type="PartyIdentifier"
nillable="true" minOccurs="0"/>
        </xsd:sequence>
    </xsd:group>
```

```
<xsd:complexType name="ElectricityMasterStandingData">
        <xsd:sequence>
            <xsd:element name="JurisdictionCode"
type="JurisdictionCode" nillable="true" minOccurs="0"/>
            <xsd:element name="NMIClassificationCode"
type="NMIClassificationCode" nillable="true" minOccurs="0"/>
            <xsd:element name="TransmissionNodeIdentifier"
type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="DistributionLossFactorCode"
type="DistributionLossFactorCode" nillable="true" minOccurs="0"/>
            <xsd:element name="ParentEmbeddedNetworkIdentifier"
type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="ChildEmbeddedNetworkIdentifier"
type="EmbeddedNetworkIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="Address"
type="AustralianPartialAddress" nillable="true" minOccurs="0"/>
            <xsd:element name="Aggregate" type="YesNo" nillable="true"
minOccurs="0"/>
            <xsd:element name="Status" type="NMIStatusCode"
nillable="true" minOccurs="0"/>
            <xsd:element name="DistanceFromSubstation"
type="DistanceFromSubstation" nillable="true" minOccurs="0"/>
            <xsd:element name="VoltageType" type="VoltageType"
nillable="true" minOccurs="0"/>
            <xsd:element name="PoleNumber" type="PoleNumber"
nillable="true" minOccurs="0"/>
            <xsd:element name="AccessDetails" type="AccessDetail"
nillable="true" minOccurs="0"/>
            <xsd:element name="FeederClass" type="FeederClass"
nillable="true" minOccurs="0"/>
            <xsd:element name="CustomerClassificationCode"
type="EMSDCustomerClassificationCode" nillable="true" minOccurs="0"/>
            <xsd:element name="CustomerThresholdCode"
type="EMSDCustomerThresholdCode" nillable="true" minOccurs="0"/>
            <xsd:element name="ControlEquipments"
type="ControlEquipments" nillable="true" minOccurs="0"/>
            <xsd:element name="NetworkDevices" type="NetworkDevices"
nillable="true" minOccurs="0"/>
            <xsd:element name="EnergisationStatus"
type="EnergisationStatus" nillable="true" minOccurs="0"/>
            <xsd:element name="PrimaryVoltage" type="PrimaryVoltage"
nillable="true" minOccurs="0"/>
            <xsd:element name="FromDate" type="xsd:date"
minOccurs="0"/>
            <xsd:element name="ToDate" type="xsd:date" minOccurs="0"/>
            <xsd:element name="TransmissionNodeIdentifier2"
type="TransmissionNodeIdentifier" nillable="true" minOccurs="0"/>
            <xsd:element name="SharedIsolationPointFlag"
type="SharedIsolationPointFlag" nillable="true" minOccurs="0"/>
            <xsd:element name="MeterMalfunctionExemptionNumber"
type="MeterMalfunctionExemptionNumber" nillable="true" minOccurs="0"/>
            <xsd:element name="MeterMalfunctionExemptionExpiryDate"
type="xsd:date" nillable="true" minOccurs="0"/>
```

```
            <xsd:element name="ConnectionConfiguration"
type="ConnectionConfiguration" nillable="true" minOccurs="0"/>
            <xsd:element name="LastConsumerChangeDate" type="xsd:date"
nillable="true" minOccurs="0"/>
            <xsd:element name="LegacyMtrReplacementPlan"
type="xsd:date" nillable="true" minOccurs="0"/>
            <xsd:element name="DefectFlag" type="DefectFlag"
nillable="true" minOccurs="0"/>
            <xsd:element name="DefectType" type="DefectType"
nillable="true" minOccurs="0"/>
            <xsd:element name="DefectIssuingMC" type="PartyIdentifier"
nillable="true" minOccurs="0"/>
        </xsd:sequence>
    </xsd:complexType>
```

- Rename the changed file version to ElectricityMasterStandingData_r46.xsd.

Enumerations.xsd

- Add new enumerations Lower Level – LL, Penthouse – PTHS, Platform – PL, Podium – PDM to AustralianFloorOrLevelType.
- Increase AustralianFloorOrLevelType element length from 2 to 4 characters.

```
<xsd:simpleType name="AustralianFloorOrLevelType">
        <xsd:restriction base="xsd:string">
            <xsd:maxLength value="4"/>
            <xsd:enumeration value="B"/>
            <xsd:enumeration value="FL"/>
            <xsd:enumeration value="G"/>
            <xsd:enumeration value="L"/>
            <xsd:enumeration value="LB"/>
            <xsd:enumeration value="LG"/>
            <xsd:enumeration value="M"/>
            <xsd:enumeration value="OD"/>
            <xsd:enumeration value="P"/>
            <xsd:enumeration value="UG"/>
            <xsd:enumeration value="RT"/>
            <xsd:enumeration value="SB"/>
            <xsd:enumeration value="LL"/>
            <xsd:enumeration value="PTHS"/>
            <xsd:enumeration value="PL"/>
            <xsd:enumeration value="PD"/>
        </xsd:restriction>
    </xsd:simpleType>
```

- For AustralianStreetType, a comment mapping aseXML abbreviation names - AS4590.1:2017 Abbreviation names – Name:
  - FRTL - FITR - FIRETRAIL

- AV - AVE - AVENUE
- CR - CRSE - CRESCENT
- GLDE – GLD - GLADE
- PWY – PKWY – PARKWAY

```
 Version 7.0 addition of comments
  -- AS4590.1:2017 Abbreviation – aseXML Abbreviation - Name
  -- FRTL - FITR - FIRETRAIL (FTRL (AS4590) is to be mapped to FITR
(aseXML))
 -- AV - AVE - AVENUE
 -- CR - CRSE - CRESCENT
 -- GLDE – GLD - GLADE
 -- PWY – PKWY - PARKWAY
```

- For AustralianFlatOrUnitType, a comment mapping aseXML abbreviation names - AS4590.1:2017 Abbreviation names – Name:
  - DUPL - DUP - DUPLEX
  - FCTY - FY - FACTORY
  - FLAT – F - FLAT
  - MBTH – MB - MARINE BERTH
  - OFFC – OFF - OFFICE
  - ROOM - RM - ROOM
  - STLL - SL - STALL
  - UNIT - U - UNIT
  - WHSE - WE - WAREHOUSE

```
Version 7.0 name mapping as per AS4590.1:2017
-- AS4590.1:2017 Abbreviation – aseXML Abbreviation - Name
-- DUPL - DUP - DUPLEX
-- FCTY - FY - FACTORY
-- FLAT – F - FLAT
-- MBTH – MB - MARINE BERTH
-- OFFC – OFF - OFFICE
-- ROOM - RM - ROOM
-- STLL - SL - STALL
-- UNIT - U - UNIT
-- WHSE - WE - WAREHOUSE
```

Events_r46.xsd

Events_r46.xsd file to replace Events_r43.xsd.

```
<xsd:simpleType name="r46">
	<xsd:annotation>
		<xsd:documentation>Purpose - Release r46
identifier.</xsd:documentation>
	</xsd:annotation>
	<xsd:restriction base="ReleaseIdentifier">
		<xsd:enumeration value="r46"/>
	</xsd:restriction>
</xsd:simpleType>
```

OneWayNotification_r46.xsd

- Update version attribute of MeterFaultAndIssueNotification element from r36 to r46.
- Rename the changed file version to OneWayNotification_r46.xsd.

```
<xsd:complexType name="MeterFaultAndIssueNotification">
<xsd:sequence>
            <xsd:element name="NMI" type="NMI"/>
            <xsd:element name="DateIdentified" type="xsd:date"/>
            <xsd:element name="StartDate" type="xsd:date"
minOccurs="0"/>
            <xsd:element name="StartTime" type="xsd:time"
minOccurs="0"/>
            <xsd:element name="EndDate" type="xsd:date"
minOccurs="0"/>
            <xsd:element name="Duration" type="Duration"
minOccurs="0"/>
            <xsd:element name="SupplyOn" type="YesNo"/>
            <xsd:element name="SupplyOff" type="SupplyOff"
minOccurs="0"/>
            <xsd:element name="Meters" type="ElectricityMeters"
minOccurs="0"/>
            <xsd:element name="ReasonForNotice"
type="ReasonForNotice"/>
            <xsd:element name="Notes" type="NotificationNotes"
minOccurs="0"/>
       </xsd:sequence>
       <xsd:attribute name="version" type="r46" use="optional"
default="r46"/>
  </xsd:complexType>aultAndIssueNotification element from r36 to r46
```

A2. Version history

V1.07

- ROLR reports: Updates I row field RecordId to Record_Version
- Adds **URM entities** for Service Order subtype interfaces
- Adds THIRD_PARTY nature value for meter exemptions

V1.06

- Updates I row and D row format for ROLR reports
- Updates **Release dates** with effective dates

V1.05

- Updates pre-production and production release dates
- Updates Related software
- Updates ROLR report details and examples
- Adds patch release information

V1.04

- Fixes broken links
- Adds CR 5301 example request and notification
- Updates meter exemption hierarchy codes and validation rules
- Updates RM29 Standing Data Quality report details
- Adds BUT upload limits for LMRP
- Removes RM29 COMM_MTR_WITH_DEFECT report
- Updates ROLR report details

V1.03

- Adds Metering Exemption API information
- Updates CATS standing data information
- Adds RM29 SDQ query COMMS_MTR_WITH_DEFECT
- Correction to information in **Assign null value to site defect elements**
- Adds RoLR report details and examples
- Updates retail pre-production refresh dates in **Proposed Timeline**

V1.02

- Adds **aseXML r46 Files and Changes**
- Adds **BuildingOrPropertyName element transition**
- Adds ITWG FAQs
- Adds BUT payload example for submitting LMRP values
- Adds **ROLR report** information
- Adds details about RM29 Standing Data Quality report queries
- For Site Defects, changes OriginatingMC field to DefectIssuingMC

v1.01

- Renames LMRP field to LegacyMtrReplacementPlan
- For Site Defects, removes proposed CR5300 Change Defect Information (Prospective)
- For Site Defects, revises Originating MC field to Defect Issuing MC
- Changes to CRs 3004/3005 and 3090/3091 details where the new meter is a COMMS* or MRAM
- Adds note about BuildingorPropertyName2 in **B2B aseXML schema impact summary**
- Updates version to several aseXML schema files

v1.00

- Adds changes to meter exemptions.

- Adds information about CR notifications when populating the LCCD field.
- Correction to current B2M version.
- Adds FAQs.

v0.03

This is the initial draft.