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# **MSATS 47.10 Technical Specification – May 2022**

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**2.00 December 2021**

Pre-production: Monday 28 March 2022

Production: Sunday 01 May 2022

Release series: MSATS4710522

# Important Notice

## PURPOSE & AUDIENCE

This document describes the technical changes required to participant's systems for the [Subject] (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 National 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.
- **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 MSATS Web 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.
- Rules and Glossary Terms are capitalised and have the meanings listed against them in [the National Electricity Rules \(NER\)](#) and [Guide to MSATS and B2B Terms](#).

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## DOCUMENT IDENTIFICATION

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## VERSION HISTORY

2.00 Initial publication of MSATS 47.10 Technical Specification – May 2022. Information was originally published in MSATS 46.98 Technical Specification.

## DOCUMENTS MADE OBSOLETE

The release of this document changes only the version of MSATS 47.10 Technical Specification – May 2022.

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**Support Hub:** To contact AEMO's Support Hub use [Contact Us](#) on AEMO's website or Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

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# 1 Introduction

## 1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in participant organisations.

## 1.2 Objective

The MSATS 47.10 Technical Specification – May 2022 (Release) describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems.

## 1.3 Status

Version	Status
2.00	<p>Includes the Metering Coordinator Planned Interruptions (MCPI) and MSATS Standing Data Review (MSDR) designs. <b>This is an early heads up. The designs are evolving and expected to change. We will provide more detail in the coming weeks.</b></p> <p>There are <b>no</b> changes for Global Settlement and B2B Transactions projects</p> <p>Please provide feedback in AEMO's website <a href="#">contact us</a> form</p>
1.00	<p>Presents the MSATS 47.10 Global Settlement and B2B Transactions design at the time of publication</p>

## 1.4 Shared isolation point flag release dates

Scheduled for implementation in:

- Pre-production: Monday 28 March 2022
- Production: Sunday 01 May 2022

## 1.5 Version numbers

Incremental version numbers such as 0.01, 1.01, 2.01 and so on mean a draft version or a small 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 the changes detailed in this technical specification.

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

## 1.6 Changes in this version

Additions in this version are:

1. **Metering Coordinator Planned Interruptions (MCPI)** evolving design.
2. **MSATS Standing Data Review (MSDR)** evolving design.
3. **Shared Isolation Point Flag** evolving design.
4. **B2M aseXML schema r42** draft design.

## 1.7 Rule and procedure changes

Effective	Details
1 October 2021	<b>11.103</b> Rules consequential on the making of the National Electricity Amendment (Five Minute Settlement) Rule 2017 and the National Electricity Amendment (Delayed implementation of five minute and global settlement) Rule 2020
1 October 2021	<b>5MS/GS Standing Data Changes</b>
1 October 2021	<b>7.16.2 National Electricity Rules</b>
1 October 2021	<b>MSATS Procedures – CATS Procedure Principles and Obligations v4.9</b>
1 October 2021	<b>MSATS Procedures: Procedure for the Management of WIGS NMIs v4.9</b>
14 March 2022	<b>MSATS Standing data review phase 1</b>
1 May 2022	<b>Global settlement and market reconciliation (AEMC)</b> Amending rules chapters: 2,3,6,7,10,11
1 November 2022	<b>MSDR and MCPI Effective Date Change Process</b>
1 May 2022	<b>Standing Data for MSATS</b>

## 1.8 Related technical specifications

Title	Description
<b>MSATS 46.98 Technical Specification</b>	5MS, Customer Switching schema, B2M aseXML schema r39_p1
<b>MSATS 46.99 Technical Specification</b>	5MS and Customer Switching releases

Title	Description
<a href="#">MSATS 47.0 technical specification</a>	B2B Transactions

## 1.9 Related documents

These guides and resources are updated according to this technical specification and published by the pre-production Release Date. They are primary resources and take precedence over this document.

Title	Description	Status
<a href="#">Guide to CSV Data Format Standard</a>	Updated with new fields	V2.00 Published <a href="#">PDF</a> <a href="#">Online</a> (requires a MarketNet connection)
<a href="#">Guide to MSATS reports</a>	Updated with changes to in line with this technical specification	In progress
<a href="#">Guide to MSATS Web Portal</a>	Updated with changes to in line with this technical specification	In progress
<a href="#">Technical Guide to MSATS</a>	Updated with changes to in line with this technical specification	In progress

## 1.10 Approval to change

No approval or agreement to change required from participant change controllers.

AEMO sought approval in:

- [AEMC's Five-Minute Settlement rule change](#)
- [MSDR and MCPI Effective Date Change Process](#)



## 1.11 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)**.

## 1.12 Proposed timeline

Milestone	Date	Description
Approval required	n/a	No approval required
Revised Technical Specification	January 2022	Further details of the changes to assist IT staff with their own technical implementation
Related Documents release	Pre-production: Monday 28 March 2022	Release of guides and resources mentioned in Related documents on page 8
Pre-production refresh	Last refresh: Thu 1/07/21 - Tue 20/07/21  The pre-production environment was refreshed with production data, up to 4 July 2021 06:00 PM (AEST)	Refresh of the pre-production system with data refreshed from the production system. An outage of up to five days can occur to the pre-production environment during this period. Participant access is not restricted, however, AEMO do not guarantee the pre-production data content or system availability. During the refresh, access to other AEMO systems such as AWEFS, EMMS, OPDMS, and STTM may be intermittently affected
MSUG pre-release review	16 March 2022	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions  This date is tentative. The project manager will provide an invitation one week prior to the meeting
B2M r39_p1 aseXML schema	1 June 2021	B2M aseXML schema r39_p1 effective

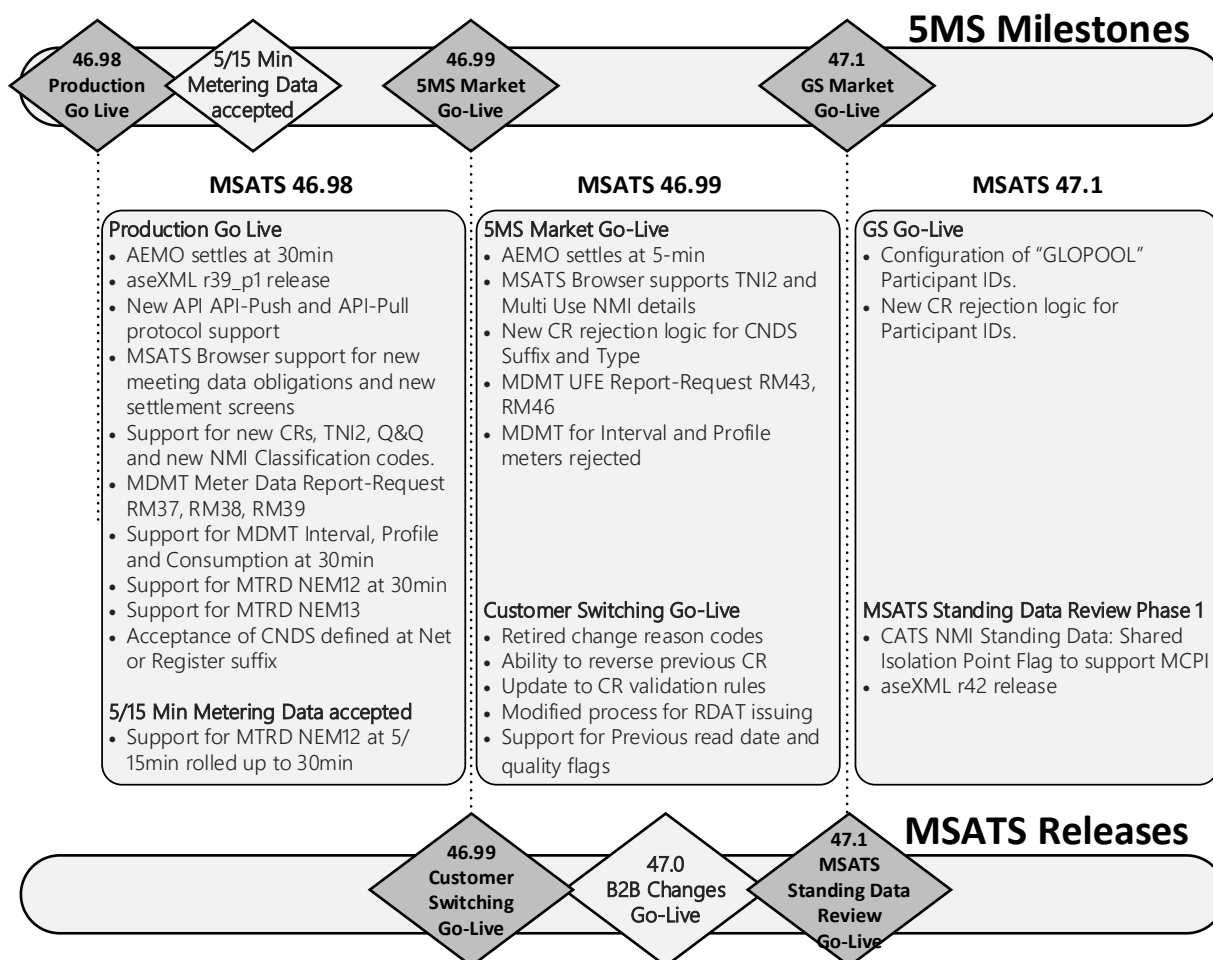
Milestone	Date	Description
B2M r42 aseXML schema	10 December 2021	<b>B2M aseXML draft schema r42</b> submissions close
Pre-production implementation	21 March 2022 – Monday 28 March 2022	AEMO implements components of the Release to pre-production for participant testing AEMO has full access to the system during this period Participant access is not restricted; however, the data content or system availability is not guaranteed
5MS pre-production available	For details, see the <b>Global Settlement</b>	Global Settlement pre-production release
Shared Isolation Point Flag available in pre-production	Monday 28 March 2022	Testing period begins for the MSDR project
MSUG pre-production review	13 April 2022	Market Systems User Group Meeting (MSUG) to review the implementation of this pre-production release and ask AEMO technical SMEs questions This date is tentative. The project manager will provide an invitation one week prior to the meeting
Production implementation	25 April 2022 – Sunday 01 May 2022	AEMO implements the release to production
GS production systems available	For details, see <b>Global Settlement</b>	Global Settlement production release
Shared Isolation Point Flag available in production systems	Sunday 01 May 2022	Production systems available to participants
MSUG: post-implementation review	11 May 2022	MSUG to review the implementation of this production release and ask AEMO technical SMEs questions This date is tentative. The project manager will provide an invitation one week prior to the meeting.

## 1.13 Projects and enhancements

### 1.13.1 5MS retail

The 5MS retail project has 3 separate MSATS releases:

1. MSATS 46.98 Technical Specification: covers the go-live of the MDM platform ahead of 5MS market start.
2. MSATS 46.99 Technical Specification: covers the 5MS market start where AEMO settles the market at 5-minute intervals using settlements by difference and begins reporting on UFE. Also includes Customer Switching.
3. MSATS 47.1 Technical Specification: (this document) covers the Global Settlement go-live rule change.



## 1.13.2 B2B transactions project

The **MSATS 47.0 technical specification** describes the changes from the B2B Procedures v3.4 and v3.5 consultations.

## 1.13.3 GS functionalities

The 5MS MSATS 47.1 functionalities included in this Release are:

Settlements	AEMO settles the market at 5-minutes by Global Settlements
Standing Data and CRs	The introduction of new Change Request (CR) rejection logic to support participants adherence to procedural obligations The GLOPOOL Participant ID is made effective
Reports	AEMO's obligation to publish Unaccounted For Energy (UFE) is formalised

## 1.13.4 MSATS Standing Data Review (MSDR)

The MSDR project implements a large number of changes to MSATS Standing Data fields, including amendments and removal of existing fields, and additional new fields.

Phase 1 effective 1 May 2022	Phase 2 effective 1 November 2022	Phase 3 TBC
MSATS release <b>47.1</b> (this Release ) CATS NMI Standing Data: Shared Isolation Point Flag	MSATS release 48.0 CATS Standing Data: New, Amended, Retired, MSDR Fields  MSATS release 48.1 (TBC) Blind Update Tool: Current NMI Standing Data updates	MSATS release TBC Meter Exemptions
Phase 1 <b>aseXML B2M schema r42</b> Shared Isolation Point Flag field <b>only</b> released for use	Phase 2 <b>aseXML B2M schema r42</b> Other fields in use	

Phase 1 effective 1 May 2022	Phase 2 effective 1 November 2022	Phase 3 TBC
Data Transitions and Scripted changes		

Current and future projects impacting MSDR, but not limited to, include:

- Consumer Data Right
- Embedded Networks
- Stand-alone Power Systems
- Wholesale Demand Response (WDR)
- **Blind Update Tool** for blind update submissions and responses (delivered in a later MSATS release).
- **Metering Coordinator Planned Interruptions (MCPI)** rule change
- Meter Exemptions

## 1.13.5 Metering Coordinator Planned Interruptions (MCPI)

Metering Coordinator Planned Interruptions (MCPI) is the implementing of CATS Standing Data changes to support the rule requirement delivered as part of the MSATS Standing Data Review (MSDR) project.

Related changes for the MCPI rule include:

1. **Shared Isolation Point Flag**
2. **B2M aseXML schema r42- Shared Isolation Point Flag**
3. **MSATS Web Portal**
4. **MSATS Reports**

# 2 Participant Impact

For this Release:

1. Understand the changes in this Release and if they affect your systems. In particular, understand the B2M electricity aseXML schema changes.
2. Be familiar with the new Shared Isolation Point Flag.
3. Be familiar with new error codes.
4. Be familiar with what happens to in-flight Change Requests.
5. Retired codes used in Change Requests are rejected.
6. You cannot raise Objections on retired objection codes.
7. You can only send Notifications to parties according to the Notification Rules.
8. You cannot select the MDP, MPB, and MPC roles in the CR 1000 to 1099 range.
9. The role of RP is an optional field in the CR 1000 to 1099 range, excluding 1060 and 1061.
10. Update your systems for compatibility.

## 2.1 In-flight change requests

### 2.1.1 Post go-live

MSATS rejects any new CRs received for retired Change Reason Codes.

### 2.1.2 Objections

Objections for Customer Switching are obsolete 21 days after implementation.

Participants can:

- Continue to raise Objections until the Objection Logging Period closes.
- Remove Objections until the Objection Clearing Period closes.

### 2.1.3 Change request processing

To effect transfer completion, where an RDAT is issued and a CR1500 is required, MSATS still requires the CR1500.

The usual processing of PEND and COM status continues.

### 2.1.4 Go-live configuration updates

Configuration change updates are as follows:

- Removal of the ability to initiate retired CR Codes.
- 65 Business Days / 90 Calendar Days post go-live configuration updates to remove notifications for retired CR Codes.

## 2.2 B2M aseXML schema change r39\_p1

To receive the new PreviousReadDate block, AEMO recommends participants upgrade to r39\_p1 by deployment of this Release. Previous read dates

You can use NMI discovery 2 to get Previous Read Dates (PRD).**Error! Reference source not found.**

## 2.3 B2M aseXML schema change r42

For this Release only the new **Shared Isolation Point Flag** becomes available for use.

The other MSDR related fields are present in r42, but not implemented until the 1 November 2022 release. For details, see Appendix 2 - B2M aseXML Schema r42 – Phase 2 on page 40.

**If you want to use the new Shared Isolation Point Flag, you must transition to r42 by this Release Date. Otherwise, you can wait for the 1 November 2022 release to upgrade your B2M aseXML schema.**

When the B2M aseXML schema change r42 becomes effective, it is the LATEST version for CATS, NMID, and MDMT transactions types.

If you are on B2M aseXML schema SUPERSEDED r36 it is no longer supported by AEMO.

## 2.3.1 Schema versions

For this Release, the following B2M electricity aseXML schema versions apply:

Prior to release dates	On release dates	Explanation	AEMO action	Required participant action
LATEST r39_p1	LATEST r42	Latest means the Participant ID is set up to receive both Current and next future version of aseXML-compliant files	Moves you to r42 Sends messages in r42	Support receiving of r42
CURRENT r39_p1	CURRENT r42	Current means the Participant ID can receive files compliant to the Current aseXML version only	Sends messages in r39_p1	Transition to r42 to send and receive the new functionality
SUPERSEDED r36	SUPERSEDED r39_p1 SUPERSEDED r36 no longer supported	Superseded means the Participant ID can receive files compliant to the Superseded aseXML version and must upgrade to Current before the next aseXML version release	Moves you to r39_p1 Sends messages in r39_p1	Support receiving of r39_p1 Transition to r42 to send and receive the new functionality in this Release

For help with schema transitions, see [Guide to Transition of aseXML](#).

To obtain schemas, guidelines, whitepapers etc, see [aseXML Standards](#).



# 3 Global Settlement (GS)

## 3.1 Change requests

Change request	Change	Action
1000	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
1020	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
2000	Changes to Status Notification Rules	Update
2000	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
2000	New Rejection Logic for GLOPOOL participant ID on LR role	Add
2001	Changes to Status Notification Rules	Update
2001	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
2001	New Rejection Logic for GLOPOOL participant ID on LR role	Add
2500	Changes to Status Notification Rules	Update
2500	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
2500	New Rejection Logic for GLOPOOL participant ID on LR role	Add
2501	Remove Status Notification Rules for Participant Type	Remove
2501	New Rejection Logic for GLOPOOL participant ID on FRMP Role	Add
2501	New Rejection Logic for GLOPOOL participant ID on LR role	Add
5001	New Rejection Logic for GLOPOOL participant ID on FRMP role	Add
5001	New Rejection Logic for GLOPOOL participant ID on LR role	Add

Change request	Change	Action
5050	Change to Status Notification Rules	Update
5051	Change to Status Notification Rules	Remove
5080	Change to Status Notification Rules	Remove
5081	Change to Status Notification Rules	Remove
6400	Inactivate Change Request Type	Remove
6401	Inactivate Change Request Type	Remove
6700	Change to Status Notification Rules	Update
6701	Change to Objection Rules	Update

### 3.1.1 CATS CR objection rules

The ability for Local Retailers to object to a CATS CR is removed.

Details of affected CRs are documented in the **CATS and WIGS Procedures**.

### 3.1.2 GLOPOOL participant

Logic introduced to reject transfer CRs to reject transfers where the FRMP Participant ID equals GLOPOOL.

### 3.1.3 Change LR

CRs CR6400 and CR6401 are removed.

### **3.1.4 CATS CR notifications**

Notifications for CR Status changes to Local Retailers is removed.

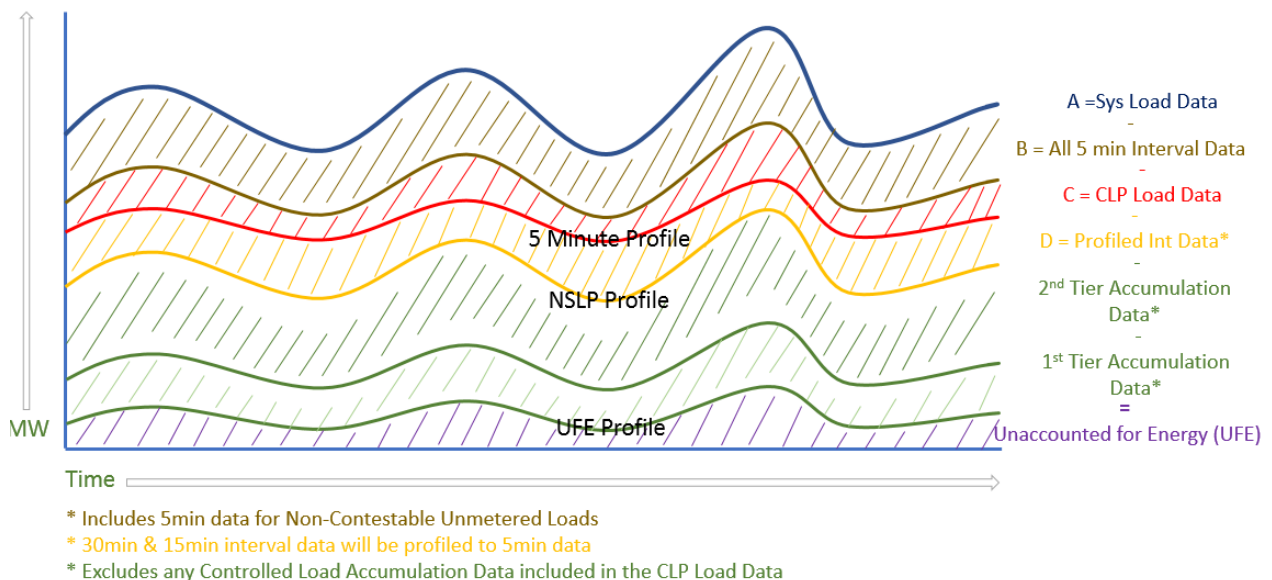
# 4 UFE Calculation Prior to Global Settlements Go Live

Unaccounted for Energy (UFE) is the remainder of Energy flowing in or out of a Local Area after calculating the sum of all recorded load, generation, and Distribution Loss Factors (DLFs).

Currently, UFE is included with Tier 1 consumption and assigned to Local Retailers (LRs). For 5-Minutes Settlements, AEMO calculates and reports the UFE proportioned for each FRMP.

## 4.1 UFE calculation example

Import (generation) 1000 kWh – { Export (load) 900 kWh + Loss Factor (DLF 1%) 9 kWh } = UFE 91 kWh



When 5-Minute Settlement goes live, AEMO continues to bundle UFE with the Tier 1 basic data and the Non-Contestable Unmetered Loads with the Local Retailer (LR) Settlement.

## 4.2 AEMO calculation of UFE values

AEMO must calculate UFE values and show how it is applied to each Retailer (FRMP) in a Global Settlements (GS) environment.

To provide an accurate UFE calculation all loads are set up in MSATS and Metering Data provided.

Market Participants are required to do the following in MSATS:

1. Create or update all Tier 1 NMIs having an active NMI Datastream and provide MDP Metering Data.
2. Register Non-Contestable Unmetered Loads and provide MDP Metering Data.

## 4.3 Calculation of UFE for market participants

UFE is calculated separately for each Local Area and applied to each Retailer (FRMP) by the proportion of Energy used in the Local Area.

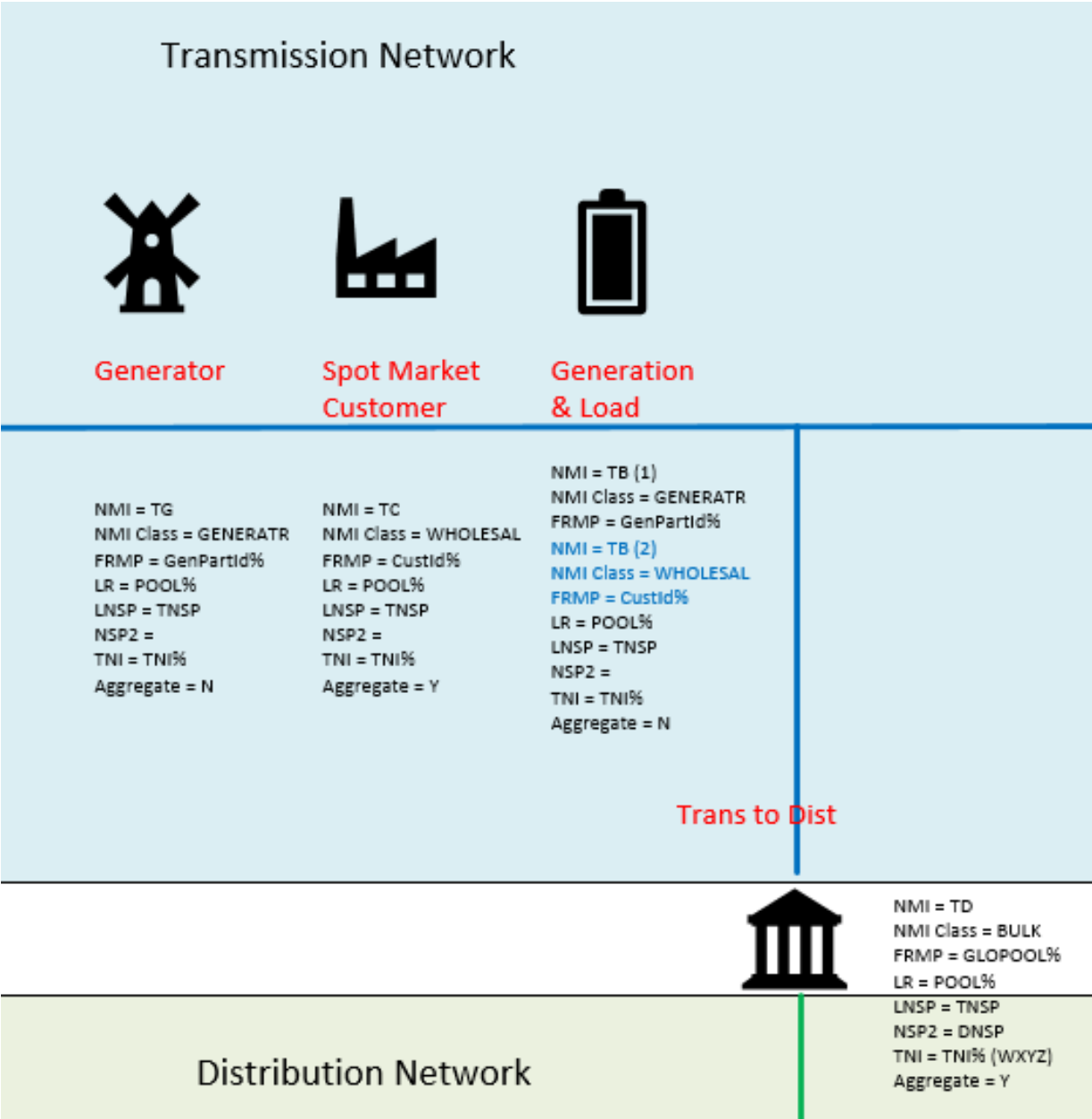
For example, Retailer 1 uses 404 kWh, Retailer 2 uses 202 kWh, and Retailer 3 uses 303 kWh. Continuing from the UFE calculation example on page 20.

1.  $\text{UFE Retailer 1} = \text{Energy Used } 404 / \text{Total Energy used } 910 \times \text{Total UFE } 91 = 40.44$
2.  $\text{UFE Retailer 2} = \text{Energy Used } 202 / \text{Total Energy used } 910 \times \text{Total UFE } 91 = 20.22$
3.  $\text{UFE Retailer 3} = \text{Energy Used } 303 / \text{Total Energy used } 910 \times \text{Total UFE } 91 = 30.33$

# 4.4 Changes to NMI standing data

To aid the Settlements process new NMI Classification Codes are created. Below are examples of the application of the new NMI Classification Codes.

## 4.4.1 Transmission network connection point examples



## 4.4.2 Changes for transmission network connection points:

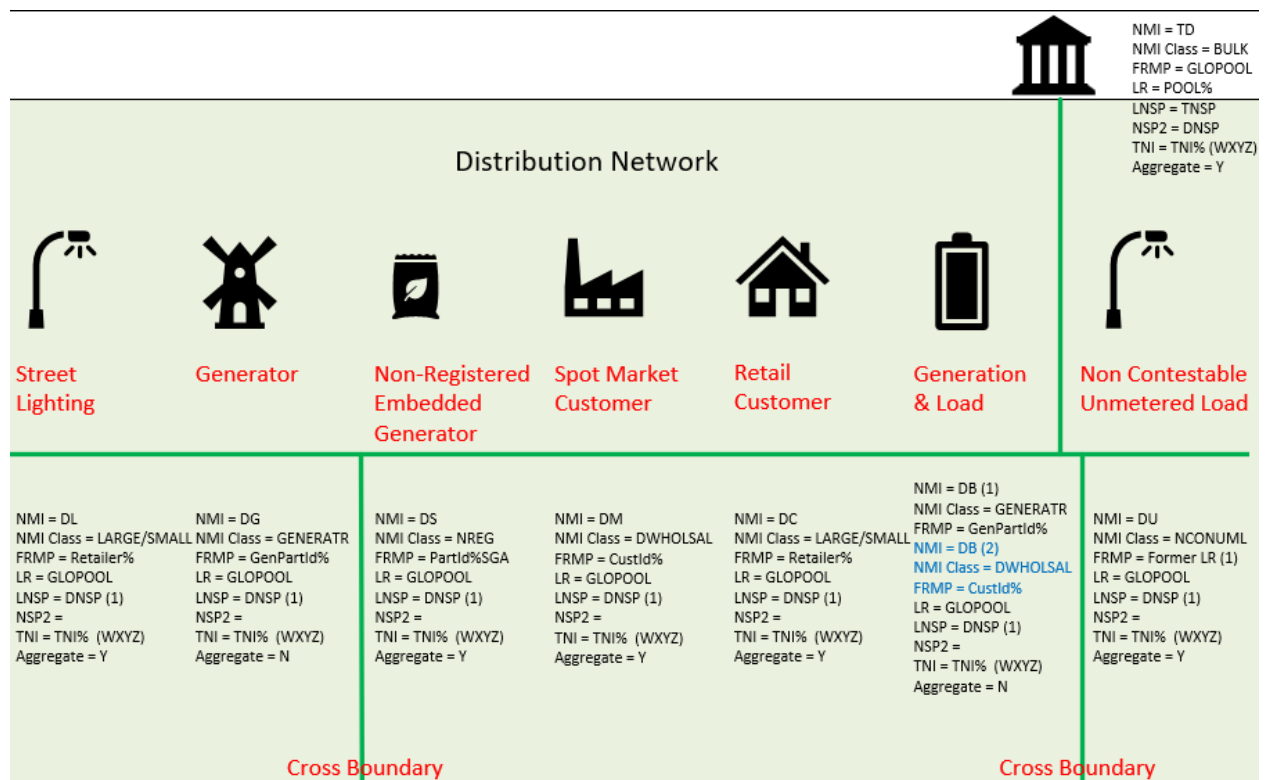
Transmission Network to Distribution Network Connection Points change to BULK to differentiate them from WHOLESAL customer connections.

### 4.4.2.1 Participant changes for Global Settlements

Transmission Network to Distribution Network Connection Points have the Financial Responsible Market Participant (FRMP) Participant ID changed to GLOPOOL.

## 4.4.3 Distribution network connection point examples

Local Retailers no longer receive boundary Metering Data.



#### **4.4.4 Changes for distribution network connected points**

A new Non-registered Embedded Generator code of NREG is included to separate registered and non-registered Generators.

A new Distribution Network wholesale code of DWHOLSAL is introduced to distinguish Distribution Network Connection Points purchasing from the Spot Market from the Transmission Network Connection Points.

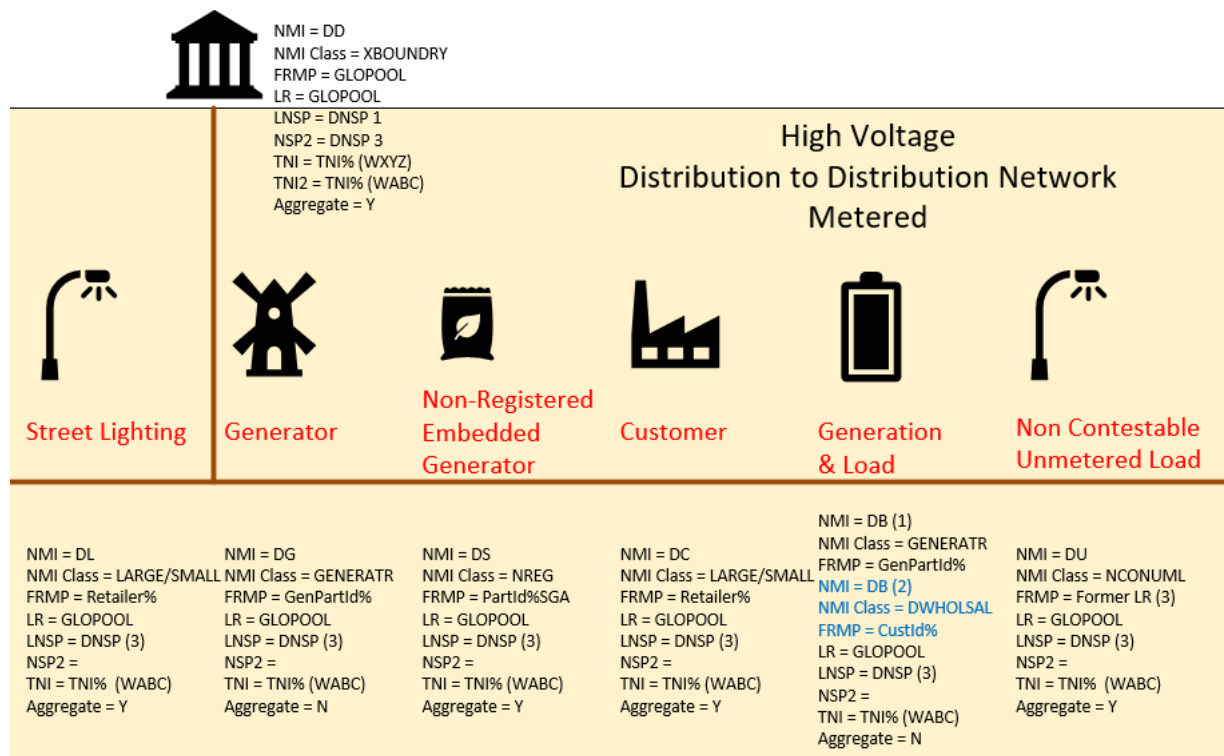
A new Non-Contestable Unmetered Load code of NCONUML is introduced.

##### **4.4.4.1 Participant changes for Global Settlements**

All Distribution Network Connection Points have the Local Retailer (LR) Participant ID changed to GLOPOOL where the Connection Point is not an Embedded Network Child.



## 4.4.5 Metered distribution network to adjoining distribution network connection point examples



## 4.4.6 Changes for metered cross-boundary connection points:

Distribution Network to adjacent Distribution Network Metered Connection Points

A new cross-boundary code of XBOUNDRY is introduced to differentiate them from WHOLESAL customer connections.

A second TNI code is assigned to record the receipt Distribution Network TNI code.

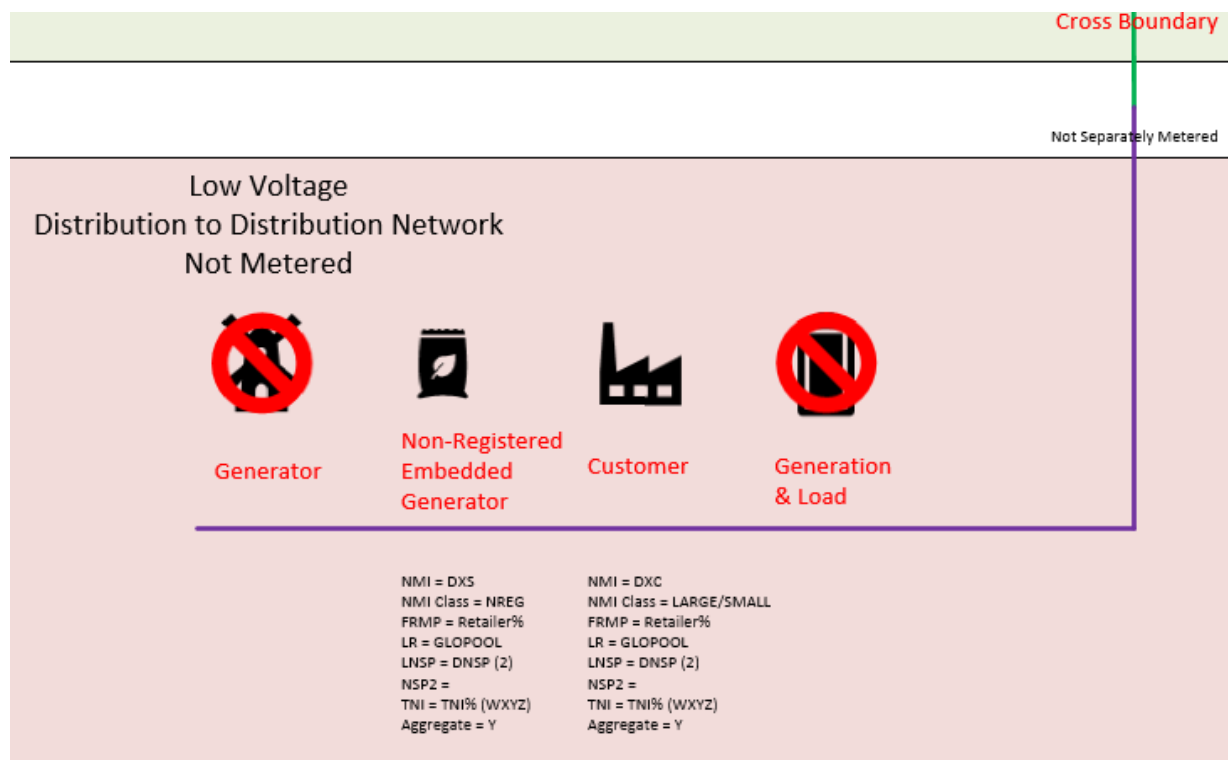
Participants must supply the cross-boundary Connection Point for LV connections, where the receiving Distribution Network load can be altered (for example new Connection Points) without the supplying Distribution Network knowledge.

#### 4.4.6.1 Participant changes for global Settlements

The Local Retailer (LR) and Financial Responsible Market Participant (FRMP) are changed to GLOPOOL for all cross-boundary Connection Points.

All Distribution Network Connection Points have the Local Retailer (LR) Participant ID changed to GLOPOOL where the Connection Point is not an Embedded Network Child.

#### 4.4.7 Unmetered distribution network to adjoining distribution network connection point examples.



#### 4.4.8 Changes for unmetered cross-boundary connected points

TNI codes for each of the end-use Connection Points in the receiving Local Area **must** have the Transmission Network supplying TNI code.

Generator and battery connections are not accepted without boundary Metering.

#### **4.4.8.1 Participant changes for Global Settlements**

All Distribution Network Connection Points have the Local Retailer (LR) Participant ID changed to GLOPOOL where the Connection Point is not an Embedded Network Child.

### **4.5 Summary of changes for UFE**

#### **4.5.1 Prior to 5-minute Settlements**

1. All Tier 1 NMIs must have an active NMI Datastream in MSATS.
2. Metering Data is provided to AEMO for all Tier 1 NMIs.
3. All Non-Contestable Unmetered Loads are registered in MSATS.
4. Metering Data is provided to AEMO for all Non-Contestable Unmetered Loads.
5. NMI Classifications are updated for existing Connection Points.
6. Distribution Network to Distribution Network cross-boundary supplies are Metered.

#### **4.5.2 Global Settlements go-live**

1. The FRMP is updated on Transmission Network to Distribution Network and Distribution Network to Distribution Network Connection Points.
2. The Local Retailer is updated on all Distribution Network connected points, excluding Embedded Network Child Connection Points.
3. Local Retailers no longer receive Local Area Metering Data.

# 5 Shared Isolation Point Flag

## 5.1 NMI Standing Data

So LNSPs can populate the presence of shared isolation points, a new field is available as a NMI Standing Data attribute at the NMI level.

## 5.2 Reports

Participants can view the Shared Isolation Point Flag using the following existing services:

- a. NMI Discovery
- b. CATS Reports (C1, C4, C7)
- c. MSATS Snapshot Report

## 5.3 CATS change requests

To maintain the Shared Isolation Point Flag, participants can use the existing CR2000 and CR5000 series Change Requests.

The Shared Isolation Point Flag is available to the following MSATS roles:

Event	Change Reason Code	Initiating Role	Description
Create NMI	2000	New LNSP	Create NMI
	2001	New LNSP	
	2520	New ENM	Create NMI, MDM Datastream & Metering Installation Details – Child NMI
	2521	New ENM	

Event	Change Reason Code	Initiating Role	Description
	2020	New ENM	Create NMI Details – Child
	2021	New ENM	
	2500	New LNSP	Create NMI, NMI Datastream & metering installation details
	2501	New LNSP	
Maintain NMI	5050	Current LNSP	Change NMI Details
	5051	Current LNSP	
	5001	Current LNSP	Backdate NMI Start Date
	5021	Current ENM	
	5060	Current ENM	Change NMI Details – Child
	5061	Current ENM	
	5100	AEMO	Change NMI Details (AEMO only)
	5101	AEMO	

## 5.4 Data format

Data type String

Maximum length 1

## 5.5 B2M aseXML Schema r42 – Phase 1

This Release for MSDR Phase 1, implements the Shared Isolation Point Flag, complying with the MCPI rule change.

### 5.5.1 B2M message exchange

For B2M message exchange, the NMI Standing Data SharedIsolationPointFlag is linked to the following new element defined in the aseXML B2M schema r42,

**ElectricityMasterStandingData\_r42.xsd:**

For information about the changes for B2M Schema r42, see [aseXML r42 draft schema](#) and [Appendix 2 - B2M aseXML Schema r42 – Phase 2](#)

Field	aseXML path	aseXML data type
SharedIsolationPointFlag	ElectricityStandingData/MasterData/SharedIsolationPointFlag	xsd:string maxLen = 1

### 5.5.2 Important information

For this Release, the only new field in the B2M schema r42 to come into use is the Shared Isolation Point Flag. Other changes in the aseXML schema r42 release become effective in MSDR Phase 2, effective 1 November 2022.

The aseXML schema release r42 affects the B2M electricity aseXML schema only.

There are no changes to the B2B electricity aseXML schema for this Release. The current B2B aseXML schema is **Error! Unknown document property name.** for MTRD, SORD, MRSR, CUST, SITE, OWNP, OWNX, NPNX and PTPE B2B transactions.

### 5.5.3 Transition

We will provide more information about transitioning to the B2M electricity aseXML Schema r42 in the next version of this technical specification. For some details, see [Appendix 2 - B2M aseXML Schema r42 – Phase 2](#).

# 6 MSATS Web Portal

We will provide interface details and examples in the next version of this technical specification.



# 7 MSATS Reports

Changes to CATS reports are to C1, C4, and C7. We will provide details of the changes and examples in the next version of this technical specification.

# 8 Implementation

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.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

## 8.1 Key consideration

The key is upgrading your B2M electricity aseXML schema is:

- For Customer Switching upgrade to r39\_p1 to receive the new fields.
- For MSDR upgrade to r42 to receive the new Shared Isolation Point Flag.

## 8.2 Upgrade options

### 8.2.1 Option 1

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

### 8.2.2 Option 2

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

## 8.3 Risks

- If you are on B2M electricity aseXML schema SUPERSEDED r36 it is no longer supported by AEMO.

## 8.4 What happens if I do not upgrade?

If you are on B2M aseXML schema SUPERSEDED r36 it is no longer supported by AEMO.

If you do not upgrade, you cannot receive the new:

- PreviousReadDate block in B2M schema r39\_p1.
- Shared Isolation Point Flag in the B2M schema r42.

# 9 Terms

## 9.1 Rules terms

You can find the following terms defined in the [National Electricity Rules \(NER\)](#).

Term	Term	Term
AEMO	Meter	NMI Standing Data
AER	Metering Data	Registered Participants
Business Day	Metering Installation	Retailer
End-use Customers	NEM	
Market Participant	NMI	

## 9.2 Glossary

You can find a full list of MSATS glossary terms in:

1. [Retail Electricity Market Glossary and Framework](#)
2. [Guide to MSATS and B2B Terms](#)

Abbreviation/Term	Explanation
B2M schema	B2M aseXML electricity schema
COAG	Council of Australian Governments
GS	Global Settlement
MCPI	Metering Coordinator Planned Interruptions
MSDR	MSATS Standing Data Review

Abbreviation/Term	Explanation
Release	MSATS 47.10 Technical Specification – May 2022
Release Dates	Pre-production: Monday 28 March 2022 Production: Sunday 01 May 2022
Submission	Blind update submission
TBC	To be confirmed

# 10 References

**aseXML standards:** The standard developed by Australian energy industries to facilitate the exchange of information between energy industry participants using XML.

**Guide to MSATS and B2B Terms:** Assists participants to understand the terms used in the MSATS guides.

**Guide to MSATS Web Portal:** Assists participants to use the MSATS web portal functions.

**Guide to NEM Retail B2M APIs:** Explains how to build B2M retail metering APIs.

**Guide To Transition Of aseXML:** Provides information and guidance for participants transitioning to another B2M or B2B asexml schema.

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

**MDM File Format and Load Process:** Specifies the Meter Data Management (MDM) Format used by MDPs for the provision of Metering Data to AEMO.

**Retail Electricity Market Glossary and Framework:** assist participants to understand the overall retail electricity framework. Contains terms used in the Retail Electricity Market Procedures and a list of NEM procedures, guidelines, and documents.

**Technical Guide to MSATS:** Supplement to the MSATS B2M policies, procedures, and guides providing an understanding of MSATS functionality and business rules.

# 11 Appendix 1 - Version History

No version history.

# 12 Appendix 2 - B2M aseXML Schema r42 – Phase 2

This schema release r42 affects B2M only.

There are no changes to the B2B aseXML schema for this Release. The current B2B aseXML schema is **Error! Unknown document property name.**

For help with schema transitions, see [Guide to Transition of aseXML](#).

To obtain schemas, guidelines, whitepapers etc, see [aseXML Standards](#).

We will provide a more detailed description of the B2M schema change as the design progresses. For details about the draft schema, see [aseXML r42 draft schema](#).

## 12.1 Change reason

The r42 schema change accommodates the MSATS Standing Data Review (MSDR) project. Many of the changes are enforced by the **MSATS Procedures** so only a subset require changes to the aseXML B2M schema.

Phase one has the following B2M aseXML schema changes:

- 24 new aseXML elements
- 3 changed aseXML elements

The new fields provide an opportunity to ensure MSATS Standing Data reflects the needs of the market by standardising the data and ensuring it is complete, accurate and useful.



## 12.2 Proposed r42 schema change summary

For all proposed r42 schema changes, see [aseXML r42 draft schema](#)

r42 filename	Change
aseXML	Rename file version to r42
CATSTableReplication	Meter Register table - Add 15 new fields - Add TestResult new field
ClientInformation	Define new address related fields Update LocationDescriptor length from 30 to 200
Electricity	Define new simple types Modify existing element data length: MeterHazard, MeterLocation Add fifteen new fields Add TestResult as new fields for Meter Register table to ElectricityMeter
ElectricityMasterStandingData	Add 12 new fields
Events	Registration of r42 release

## 12.3 Impact summary

Below are the potentially impacted files, transactions, and versioned types for r42.

### Legend

- Modified types: All changed types.
- Derived types: Any types derived from a modified type, therefore modified by default.
- Versioned types affected: All versioned types needing the version attribute updated.

- Transactions potentially affected: All transactions containing a modified type, either directly or via a type substitution.
- Schema files affected: Schema files changed.

Table 1 Impact summary

Schema files affected	Modified types	Derived types	Versioned types affected	Transactions potentially affected
aseXML_r42.xsd				
CATSTableReplication_r42.xsd	ElectricityNMIMeterGroup		ElectricityNMIMasterRow ElectricityNMIMeterRow ElectricityNMIMasterRowBDT ElectricityNMIMeterRowBDT ElectricityCATSChangeRequestNMI MasterRow ElectricityCATSChangeRequestNMI MeterRow	ReplicationNotification CATSBulkDataResponse
ClientInformation_r42.xsd	AustralianPartialAddress AustralianStructuredAddressPartialComponents AustralianAddress AustralianStructuredAddressComponents			
Electricity_r42.xsd	ElectricityMeter			
ElectricityMasterStandingData_r42.xsd	ElectricityNMIMasterGroup ElectricityMasterStandingData	ElectricityCATSChangeRequestNMI MasterRow ElectricityNMIMasterRowBDT ElectricityNMIMasterRow	ElectricityStandingData	NMISTandingDataResponse ReportResponse CATSChangeRequest

Schema files affected	Modified types	Derived types	Versioned types affected	Transactions potentially affected
Events_r42.xsd	r42			

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