



---

# May 2023 Release Program

---

**May 2023**

SAPS, CDR, B2B & B2M Release Industry Go-live Plan

---

# Important notice

## PURPOSE

This paper describes the go-live approach with respect to the upgrade of AEMO's retail and wholesale systems for the Stand-Alone Power Systems (SAPS), Consumer Data Rights (CDR) changes, B2B v3.8 and B2M changes associated with the 30<sup>th</sup> May 2023 release.

## DISCLAIMER

This document may be subsequently updated or amended. It is intended to provide general information and guidance, which is only current as at the date of its last publication. It does not constitute legal or business advice and should not be relied on as a substitute for obtaining detailed advice about the National Electricity Law, the National Electricity Rules, or any other applicable laws, procedures or policies. AEMO has made every reasonable effort to ensure the quality of the information in this document but cannot guarantee its accuracy or completeness.

Accordingly, to the maximum extent permitted by law, AEMO and its officers, employees and consultants involved in the preparation of this document:

- make no representation or warranty, express or implied, as to the currency, accuracy, reliability or completeness of the information in this document; and
- are not liable (whether by reason of negligence or otherwise) for any statements or representations in this document, or any omissions from it, or for any use or reliance on the information in it.

## VERSION CONTROL

Version	Release date	Changes
0.1	06 April 2023	Draft released to the Implementation Forum for comment
0.2	24 April 2023	Minor amendment to B2M Schema settings (section 3.6.1)
1.0	12 May 2023	Final version with confirmed Last Consumer Change Date go-live dates and finalised implementation timings
1.1	23 May 2023	Clarification of B2M and B2B schema setting timings

# Executive summary

In May 2023 AEMO will implement a significant software release across its Retail and Wholesale systems supporting AEMO's reform delivery program for electricity under the NEM Reform Program<sup>1</sup>. The release introduces changes to support the implementation of Stand-Alone Power Systems (SAPS), B2B 3.8, Retail ICFs and Phase 2 of Consumer Data Rights (CDR) for Energy.

AEMO has a key coordination role, through collaboration with its industry working groups, to ready Industry and itself for the various system and market "go-live" dates. This document describes the go-live approach with respect to the upgrade of the relevant systems for the May 2023 release.

At a high level, the go-live responsibilities are set out below:

- AEMO to facilitate Industry Tests for the May 2023 release
- AEMO to enable the market software to commence operations in line with rule requirements
- Participants to complete their preparations in readiness for the May 2023 release changes on 30<sup>th</sup> May 2023.
- Participants to enable their systems and processes in line with the MSATS CATS Procedures V 5.5 and B2B 3.8 Procedures which come into effect on 30<sup>th</sup> May 2023.

---

<sup>1</sup> <https://www.aemo.com.au/initiatives/major-programs/nem2025-program/about-nem2025-program>

# Contents

<b>Executive summary</b>	<b>3</b>
<b>1. Introduction</b>	<b>5</b>
1.1 May 2023 Release Program	5
1.2 Document purpose & approach	7
<b>2. March 2023 Release Go-live Plan Framework</b>	<b>8</b>
2.1 Scope	8
2.2 Principles	8
<b>3. May 2023 Release Industry Go-Live Plan</b>	<b>9</b>
3.1 Industry Testing	9
3.2 Go-live plan	9
3.3 Communications	10
3.4 May Release Industry Go Live schedule	10
3.5 May Release Go- Live Impact	12
3.6 AseXML schema impact	13
<b>4. Participant Support Arrangements</b>	<b>15</b>
4.1 Support Arrangements for preparing for May 2023	15
4.2 Production Support	15
4.3 Participant Support Arrangements for May	15
<b>Glossary</b>	<b>16</b>

## Tables

Table 1	May Release Go-Live Plan development timeline	7
Table 2	May 2023 Release Schedule	10

# 1. Introduction

This chapter describes the implementation of the Australian Energy Market Operator's (AEMO) NEM Reform May 2023 Release program. This document covers the SAPS, CDR, B2B and Retail ICF Go live activities and then details the purpose and context of the release Go-Live Plan.

## 1.1 May 2023 Release Program

The May Release Program includes changes associated with the Stand-Alone Power Systems (SAPS), Consumer Data Rights (CDR) changes, B2B v3.8 and B2M and Retail ICF changes. The Program covers the procedural, IT system and market readiness arrangements needed to implement the May Go-Live Plan using the following workstreams:

- Procedures – defines and implements the required changes to market procedures
- Systems – designs, develops, tests, and implements changes to AEMO's market systems
- Readiness – coordinates, assists, and prepares AEMO and participants to transition to the May SAPS, B2B, B2M and CDR changes.

AEMO's May 2023 implementation program has entered the implementation planning phase. This paper relates to the go-live planning for the May 2023 Release.

### 1.1.1 Stand Alone Power Systems (SAPS)

In May 2020, the AEMC published recommendations for changes to energy laws and rules<sup>2</sup> to allow for distribution network service providers (DNSPs) to use stand-alone power systems where it is economically efficient to do so.

A stand-alone power system (SAPS) is an electricity supply arrangement that is not physically connected to the national electricity grid. A SAPS may incorporate one or more generators supplying electricity to one or more customers. Customers within a SAPS are entitled to all existing consumer protections including access to retail competition.

A person who supplies electricity from one or more generating units to a SAPS and sells to the market must be registered with AEMO as a Market SAPS Resource Provider (MSRP).

The SAPS project will introduce changes to both the AEMO wholesale and Retail systems and the EMMS Data Model.

### 1.1.2 Retail ICFs & B2M Changes

Four Retail ICFs will be deployed during the May Release. The ICFs are:

- ICF032 Child NMI standing data quality - TNI and DLF
- ICF047 - Updating Network Tariff for a Greenfield NMI
- ICF064 - Addition of 'House Number To Suffix' to Australian Address
- ICF065 - Extend the current 130 business day limitation on NMID3 requests

---

<sup>2</sup> <https://www.aemc.gov.au/market-reviews-advice/updating-regulatory-frameworks-distributor-led-stand-alone-power-systems>

There will also be two additional B2M changes in the May release:

- End of the MCPI compliance holiday. The Shared Isolation Point Flag will become mandatory for CR5000 series change requests<sup>3</sup>
- The C1 reporting framework shall be extended to publish enumeration list data used by MSATS.

### 1.1.3 B2B v3.8

Following a determination on 5<sup>th</sup> July 2022, B2B v3.8<sup>4</sup> will come into effect on 30<sup>th</sup> May 2023. B2B 3.8 introduces a new One-Way Shared Fuse Notification. The Initiator may use this transaction to inform a Recipient of any new or any changes to existing Shared Fuse Arrangements for a Connection Point. This new notification is reflected in the r43 aseXML schema release.

### 1.1.4 Consumer Data Right Phase 2

There are two components of Phase 2 of Consumer Data Right for Energy. From 15<sup>th</sup> May, accredited retailers (in addition to the Initial Retailers) can participate as CDR Data Holders. Complex CDR queries will also become available from 15<sup>th</sup> May, however there is no technical implementation required to support this milestone.

The second change is the introduction of the Last Consumer Change Date (LCCD) in MSATS following the determination on 8<sup>th</sup> November 2022<sup>5</sup>. The CR 5056 and CR 5057 transactions will be introduced to accommodate this new attribute. This was initially scheduled to take effect on 30<sup>th</sup> May, however, following industry consultation, the effective date of this change is now 1<sup>st</sup> November 2023. The LCCD attribute will remain in the r43 aseXML schema and the LCCD will also be visible in MSATS from the deployment on 28<sup>th</sup> May however the LCCD will not be populated until 1<sup>st</sup> November.

### 1.1.5 R43 XML Schema release

To support the above changes, the aseXML version will move to r43 for both B2B and B2M. The changes were approved by the ASWG via the aseXML Schema Change request r43 CR72 B2M\_B2B<sup>6</sup>. The Impact of these schema changes are detailed in sections 3.5 and 3.6 of this document.

### 1.1.6 5.2 EMMS Data model

There will be changes to the EMMS data model to support the SAPS implementation for the May Release. The 5.2 EMMS Data model will also contain changes to support the following forthcoming AEMO initiatives.

- Integrating Energy Storage Systems, effective August 2023
- Fast Frequency Response market ancillary service, effective October 2023
- Enhancing information on Generator availability in MT PASA, effective October 2023

These changes are documented in the EMMS Technical Specification<sup>7</sup>.

---

<sup>3</sup> [CATS Procedures 5.31](#)

<sup>4</sup> [AEMO | B2B Procedures v3.8](#)

<sup>5</sup> [AEMO | Consumer Data Rights MSATS Consultation](#)

<sup>6</sup> [ASWG via the aseXML Schema Change request r43 CR72 B2M B2B](#)

<sup>7</sup> [EMMS - Technical Specification - Data Model v5.2 - May 2023 \(aemo.com.au\)](#)

## 1.2 Document purpose & approach

This document describes the go-live approach for the May 2023 with respect to the deployment of Retail and Wholesale system enhancements.

The May 2023 Release Industry Go-Live plan is developed in consultation with industry through the Implementation Forum. Table 1 below illustrates AEMO's engagement approach and timeline for developing the plan.

**Table 1 May Release Go-Live Plan development timeline**

<b>Milestone</b>	<b>Date</b>
<b>Initial engagement with the Implementation Forum</b>	28 February 2023
<b>Publish draft for industry feedback</b>	6 April 2023
<b>Deadline for industry feedback</b>	21 April 2023
<b>Publish final plan</b>	12 May 2023

# 2. March 2023 Release Go-live Plan Framework

## 2.1 Scope

- In scope
  - Deployment of Retail and Wholesale system changes to support the implementation of SAPS
  - Deployment of Retail systems changes to support MSATS release 49.0, B2B 3.8
  - Deployment of EMMS 5.2 Data Model
  - Communications during deployment
  - Support arrangement during the go-live period
- Out of scope
  - The IESS and SAPS Registration processes that were launched in March 2023 are not in the scope of this document. Please refer to the March 2023 go-live plan <sup>8</sup>
  - B2B 3.7, updates to the PersonName attribute to reflect the optionality of the elements PersonNameTitle and PersonNameGiven was removed from scope following consultation with the ASWG. This change is not reflected in the r43 schema release.
  - Last Consumer Change Date (LCCD) will be included in the r43 schema release, however LCCD will not be populated in MSATS until 1<sup>st</sup> November 2023.
  - The Meter Exemptions automation project was initially planned to be implemented in this release however the go-live date for this project is still subject to Industry consultation
  - ICF060 – Five Minute Load Profile, was initially scheduled to be implemented in the May Release however, following industry consultation, this implementation has been re-scheduled to 1<sup>st</sup> October 2023
  - Participant Contingency plans

## 2.2 Principles

The industry transition and go-live strategy principles apply to the May 2023 Release changes. These are:

1. Mandated SAPS, B2M and B2B commencement dates should be met
2. NEM operations should be uninterrupted during periods of transition and go-live
3. Market system go-live risks should be minimised
4. Participants should be provided with implementation flexibility where possible
5. Participants and AEMO are responsible for their own go-live planning

---

<sup>8</sup> [AEMO | Implementation Forum](#)



# 3. May 2023 Release Industry Go-Live Plan

## 3.1 Industry Testing

Industry testing for the May 2023 Release will commence ahead of the main pre-prod deployments to enable participants to commence test preparation. The key Industry Test/prep-prod dates are as follows:

- EMMS 5.2 Data Model was deployed to pre-prod 20<sup>th</sup> April
- Wholesale changes deployed to pre-prod on 27<sup>th</sup> April.
- Retail changes (which include the r43 aseXML schema) deployed on 5<sup>th</sup> May from 12:00 to 16:00 (Market Time). There was a pre-prod MSATS outage during this window
- The SAPS and B2B rule effective date for the changes was set at 9<sup>th</sup> May in pre-prod to mimic the production go-live.

SAPS Industry testing will be by invitation.

## 3.2 Go-live plan

The May release contains three separate releases, for the EMMS 5.2 Data Model, Wholesale Systems and Retail systems.

EMMS 5.2 Data Model will be deployed to production on 23<sup>rd</sup> May. There will be no interruption to production, however this will be confirmed in the next version of this document.

The Wholesale Systems production deployment for the May Release is scheduled for 25<sup>th</sup> May. There will be no outage for this deployment and no participant impact.

The May 2023 Release for MSATS and B2B 3.8 will be deployed on 28<sup>th</sup> May in preparation for the respective rule changes which come into effect on 30<sup>th</sup> May 2023.

AEMO will deploy the required market systems upgrades to MSATS on Sunday 28<sup>th</sup> May during the 10:00 to 14:00 outage window (Market Time). This includes the deployment of the r43 aseXML Schema. During the outage window

- a. Meter data processing and RM reports will not be available during the outage period.
  - b. User Rights Management (URM) will continue to operate, however the administration screens will not be accessible.
  - c. MSATS B2B Transactions and B2B MSATS Screens will be unavailable during this outage.
  - d. NMI Discovery will not be available during the outage period.
  - e. CDR Standing and Usage Data APIs will not be available during the outage period.
  - f. Users will not be able to access MSATS during the outage period.
2. Procedural changes for MSATS CATS and WIGS for MSATS V5.4 and B2B V3.8 come into effect from 00:01 hours 30<sup>th</sup> May (Market Time).
  3. Participants are responsible for the update (as required) of their systems to reflect the MSATS and B2B changes.

### 3.3 Communications

Correspondence regarding the go-live will be released through AEMO Support Hub bulletins and the NEM Reform mailbox, [NemReform@aemo.com.au](mailto:NemReform@aemo.com.au).

There are three categories of cutover communications that participants will receive:

- General progress updates – provide participants with information about the status implementation activities via the NEM Reform mailbox
- Support Hub Notices – provides information to the market on Software releases including notifications of releases and outage completion.

Issues – should any issues arise or deviations from the previously communicated processes, participants will be notified through the NEM Reform mailbox. If the issue or deviation is in relation to a notice previously sent through AEMO’s Support Hub Notices, participants will receive a communication through this channel (via the AEMO IT Duty Manager) in addition to the NEM Reform mailbox. Participants experiencing issues as result of the go-live should raise these incidents directly via the AEMO Support Hub.

### 3.4 May Release Industry Go Live schedule

The steps for the implementation of AEMO market system changes and associated communications are outlined in Table 2.

**Table 2 May 2023 Release Schedule**

#	AEMO actions	Industry Impacts and actions	Planned Time (Market Time)	Communication Channel
1	MCPI Compliance Holiday Ends	SharedIsolationPointFlag will become mandatory for CR5000 series change requests	00:01 Monday 1 <sup>st</sup> May	NA
2	Consumer Data Right key date. Note, there is no technical deployment to support this milestone	Accredited retailers (in addition to the Initial Retailers) can participate as CDR Data Holders. Complex CDR queries become available	Monday 15 <sup>th</sup> May	NA
3	Notice of planned release for SAPS Wholesale System changes and EMMS 5.2 Data Model		Tuesday 16 <sup>th</sup> May	Support Hub Bulletin
4	Notice of planned release for MSATS 49.0 and B2B 3.8		Tuesday 9 <sup>th</sup> May	Support Hub Bulletin

#	AEMO actions	Industry Impacts and actions	Planned Time (Market Time)	Communication Channel
5	AEMO deploys EMMS 5.2 Data Model Changes	EMMS 5.2 Data Model Changes become available. To be confirmed in the next version of this document	Tuesday 23 <sup>rd</sup> May Business Hours	Support Hub Bulletin
6	AEMO deploys Wholesale System changes	No Outage No impact to Participants.	Thursday 25 <sup>th</sup> May Business Hours	Support Hub Bulletin
7		Participants to update aseXML schema preferences via the MSATS Browser. Refer to section 3.6.1 of this document	Prior to Sunday 28 <sup>th</sup> May 10:00	NA
8	AEMO deploys MSATS release 49.0	MSATS, B2B and B2M outage during upgrade.	Sunday 28 <sup>th</sup> May 10:00 – 14:00	Confirmation of completion of deployment and notification of B2M/B2B restart via NEM Reform mailbox  Support Hub Bulletin at completion of outage window.
9	MSATS Procedures for Standing Data, CATS & WIGs v5.5 come into effect		Tuesday 30 <sup>th</sup> May 00:01	NA
10	B2B Procedures v3.8 Come into effect		Tuesday 30 <sup>th</sup> May 00:01	NA

#	AEMO actions	Industry Impacts and actions	Planned Time (Market Time)	Communication Channel
11	First Settlement run after a SAPS TNI is established in MSATS	RM51 report is generated with SAPS summary data. SAPS data available in EMMS.	SAPS Processes to be activated from Monday 19 <sup>th</sup> June. Dependent on establishment of a SAPS in production	NA

### 3.5 May Release Go- Live Impact

AEMO Retail system changes are outlined in the MSATS 49.0 Technical Specification<sup>9</sup>. The following table shows the impact of the MSATS deployment and the subsequent procedure effective dates.

Change	Impact and Timing
r43 aseXML	r43 becomes the current version (B2B & B2M) on 28 <sup>th</sup> May
B2Bv3.8	Effective Date 30 <sup>th</sup> May
	Shared Fuse Notifications will be rejected prior to 30 <sup>th</sup> May
Last Consumer Change Date	Visible in Browser & aseXML from 28 <sup>th</sup> May
	Effective date 1 <sup>st</sup> November
	Validation effective 1 <sup>st</sup> November
	LCCD populated from 1 <sup>st</sup> November
SAPS Node Hierarchy and Node Type data	Deployed on 28 <sup>th</sup> May
	Profile Area creation start date 1 <sup>st</sup> January 2023
	Node Hierarchy (PA) creation start date 1 <sup>st</sup> January 2023
SAPS Role Category assignment	Available from 28 <sup>th</sup> May
	CR Validation effective 30 <sup>th</sup> May
	Application of Role Category SGA to SGA participants.
C1 Enumerations lists used for CR processing	Change effective from 28 <sup>th</sup> May
C1/C4/C7 Display of new attributes	Change effective from 28 <sup>th</sup> May
ICF064 - 'House Number To Suffix' is a part of the Australian structured address standards.	Visible in Browser & aseXML from 28 <sup>th</sup> May
	Validation effective 30 <sup>th</sup> May

<sup>9</sup> <https://aemo.com.au/en/energy-systems/market-it-systems/it-change-and-release-management>

	Visible in C1 C4 & C7 from 28 <sup>th</sup> May
ICF037 - Allow ENMs visibility to parent NMI standing data.	Available by COB 29 <sup>th</sup> May
ICF047 - Updating Network Tariff for a Greenfield NMI	Change effective from 28 <sup>th</sup> May
ICF065 - Extend the current 130 business day limitation on NMID3 requests.	Change effective from 28 <sup>th</sup> May
MCPI Compliance Holiday ends	Validation is effective from 30 <sup>th</sup> May
Bulk Data tool / Blind update tool	New attributes (HouseNumberToSuffix and Last Consumer Change Date) visible from 28 <sup>th</sup> May

### 3.6 AseXML schema impact

The MSATS B2M and B2B schemas will be updated to r43 at the MSATS 49.0 release. Prior to the cutover, participants should ensure that their MSATS B2M preferences reflect the settings for their schema requirements post the schema updates. B2B preferences should be updated immediately after the cutover. Note that participants' outboxes will have to be cleared before schema settings are updated. For more information on aseXML transitioning, please refer to [Transition of aseXML \(aemo.com.au\)](https://www.aemo.com.au/transition-of-asexml) on the AEMO website.<sup>10</sup>

#### 3.6.1 B2M Schema

The following participant schema settings are available for selection:

- Latest means the participant is set up to receive both current and next projected future version of aseXML-compliant files.
- Current means the participant can receive files compliant to the current aseXML version.
- Superseded means the participant can receive files compliant to the superseded aseXML version and needs to change over their receiving system before the next aseXML version release.

During the MSATS 49.0 release, a participant's preference for the receiving schema version of CATS and NMID transactions shall be transitioned to MSATS. These are set before the cutover through the MSATS Browser (MSATS Side Menu > Participants > Participant Schema) and shall be transitioned as follows:

Pre - cutover		Post - cutover	
Schema settings	Schema version	Schema settings	Schema version
"Superseded"	r39_p1	"Superseded" Schema changes from r39_p1 to r42. Please ensure your market systems are updated to support r42 or r43	r42
"Current"	r42	Updates to "Superseded"	r42
"Latest"	r42	Remains set to "Latest"	r43

Participants that wish to stay on the r42 schema should ensure schema settings are set to 'Current' and not 'Latest' prior to cutover commencing. Participants on the superseded r39\_p1 schema will need to manually update to a newer schema version r42 or r43.

<sup>10</sup> [https://visualisations.aemo.com.au/aemo/web-help/Content/MSATSaseXMLtransition/webTitlePage.htm?tocpath=MSATS%7CTransition%20of%20aseXML%7C\\_\\_\\_\\_0](https://visualisations.aemo.com.au/aemo/web-help/Content/MSATSaseXMLtransition/webTitlePage.htm?tocpath=MSATS%7CTransition%20of%20aseXML%7C____0)

Participants that wish to transition to the r43 schema will need to ensure their schema setting is set to 'Latest'.

### 3.6.2 B2B Schema

During the MSATS 49.0 release, a participant's preference for the receiving schema version of each B2B transaction group shall be transitioned. B2B schema preferences can be updated as soon as MSATS is available following the outage on 28<sup>th</sup> May. These settings are updated through the MSATS B2B Browser (B2B Brower Side Menu > Protocol/Transforms) and shall be transitioned as follows:

Pre - cutover	During cutover	Post - cutover
r38	Participants transform to the new schema version.	r43
r_any	Participants remain on r_any.	r_any

After the 49.0 release implementation, the B2B schema has the following supported schema versions and transforms:

Receiving version	Transforms	Transaction groups
r43	r41 to r43	MTRD, SORD, MRSR, CUST, SITE, OWNX, NPNX & PTPE
r41	r43 to r41	MTRD, SORD, MRSR, CUST, SITE, OWNX, NPNX & PTPE
Other versions	None	MTRD, SORD, MRSR, CUST, SITE, OWNX, NPNX & PTPE

Shared fuse notification scenarios are described in section 4.2.7 of the MSATS 49.0 Technical Specification<sup>11</sup>.

<sup>11</sup> <https://aemo.com.au/en/energy-systems/market-it-systems/it-change-and-release-management>

# 4. Participant Support Arrangements

Participants should use AEMO's BAU support channels and raise all issues and incidents with Support Hub. The NEM Reform mailbox will remain open for general queries relating to the May 2023 Release.

## 4.1 Support Arrangements for preparing for May 2023

The NEM Reform Program will support participant preparations for the May 2023 Release through:

- Planning and facilitation Industry test approaches for SAPS, B2B, B2M and EMMS changes
- Progress and Issue management during Industry Test
- Continued operation of Industry working groups including Implementation Forum and the Industry Test Focus Group (ITFG)
- Participant queries will be managed through the NEM Reform mailbox

## 4.2 Production Support

All production issues should be raised via Support Hub and will be managed through the current Retail system support processes.

## 4.3 Participant Support Arrangements for May

Support Hub will remain the main point of contact for issues, incidents and queries post 28<sup>th</sup> May.

Industry Q&A sessions will be arranged following the Go-live should there be demand from Participants. Questions from participants can also be directed via the NEM Reform mailbox.

# Glossary

This document uses many terms that have meanings defined in the National Electricity Rules (NER). The NER meanings are adopted unless otherwise specified.

<b>Term</b>	<b>Definition</b>
AEMC	Australian Energy Market Commission
AEMO	Australian Energy Market Operator
ASWG	aseXML Standards Working Group
BAU	Business as Usual
CDR	Consumer Data Right
Cutover / Go-live	System implementation event
CR	Change Request
EMMS	Electricity Market Management Systems
EVM	B2B Electricity Validation Module
ICF	Issue/Change Form
IF	Implementation Forum
ITFG	Industry Testing Focus Group
LCCD	Last Consumer Change Date
MDM	Meter Data Management system
MSATS	Market Standing data and Transaction System
MSDR	MSATS standing Data Review
NEM	National electricity market
NER	National electricity rules
SAPS	Stand-Alone Power Systems
Transition	Process of shifting from current to future operating state