

NEM2025 Implementation Forum

Meeting #7
31 January 2023



1. Welcome

We acknowledge the Traditional Owners of country throughout Australia and recognise their continuing connection to land, waters and culture.

We pay respect to their Elders past, present and emerging.

Agenda

#	Time	Topic	Presenter(s)
1	1:00 – 1:05pm	Welcome	Greg Minney
2	1:05 – 1:10pm	Actions & Feedback from Previous Meeting	Greg Minney
3	1:10 – 1:30pm	March 2023 Release	Greg Minney & Chris Fleming
4	1:30 – 1:35pm	SGA Engagement & Communications for Go-Live	Emily Brodie & Ulrika Lindholm
5	1:35 – 1:55pm	May 2023 Release	Greg Minney & Jim Agelopoulos
6	1:55 – 2:00pm	SAPS & May Release Technical Specification Q&A Session (15 February)	Chris Fleming
7	2:00 – 2:05pm	SAPS Design Update	Paul Lyttle
8	2:05 – 2:15pm	Industry Testing Arrangements & Progress (March and May)	Tui Grant
9	2:15 – 2:35pm	October 2023 Release	Greg Minney & Jim Agelopoulos
10	2:35 – 2:40pm	5MS Tranche 2 Metering Rollout	Paul Lyttle
11	2:40 – 2:50pm	June 2024 Release	Emily Brodie
12	2:50 – 2:55pm	Upcoming Engagements	Ulrika Lindholm
13	2:55 – 3:00pm	General Questions & Other Business	Greg Minney

Appendix A: Competition law meeting protocol and AEMO forum expectations

"Please note that this meeting will be recorded by AEMO and may be accessed and used by AEMO for the purpose of compiling minutes. By attending the meeting, you consent to AEMO recording the meeting and using the record for this purpose. No other recording of the meeting is permitted"

2. Actions & Feedback from Previous Meeting

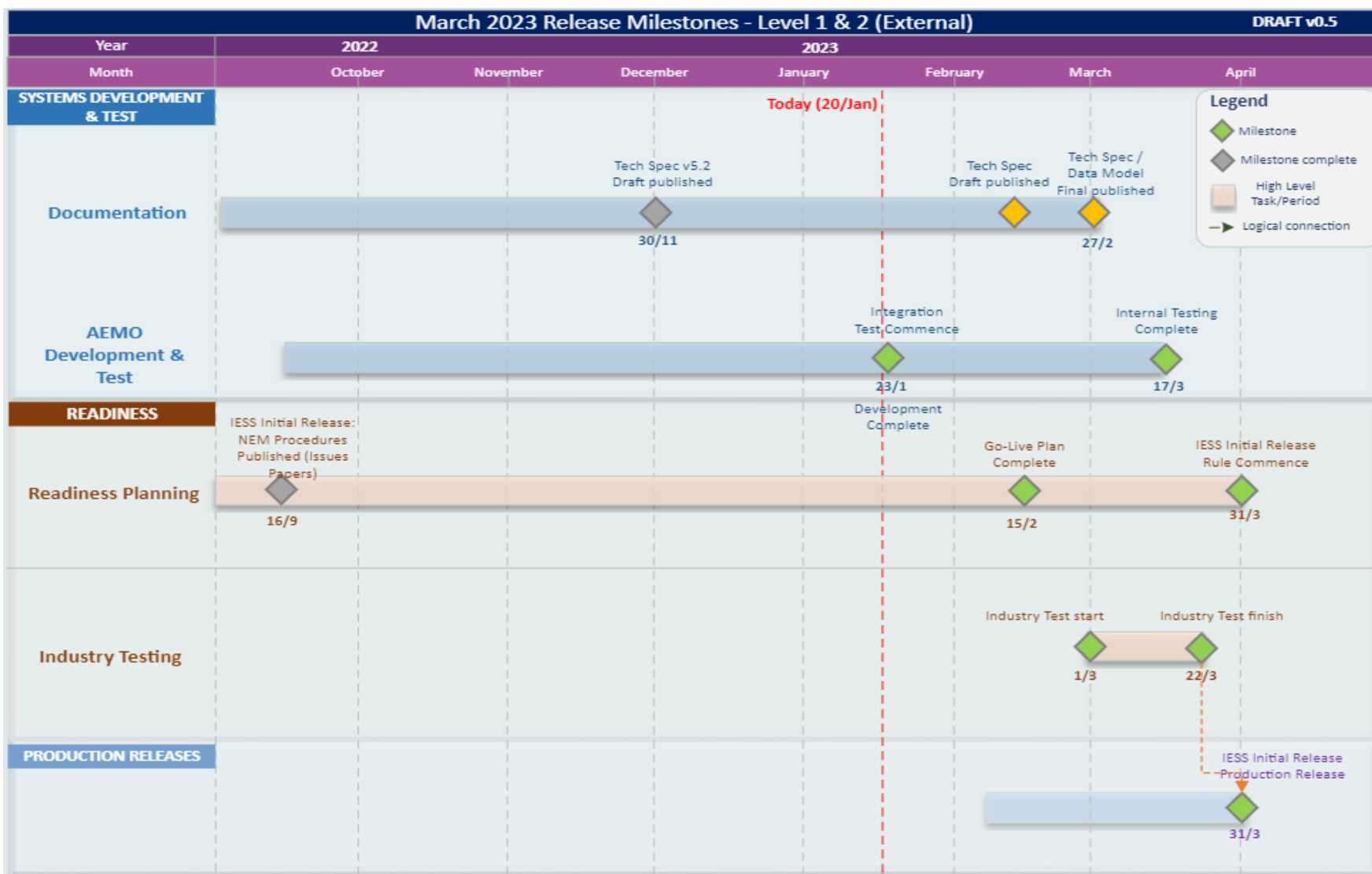
Actions

#	Status	Action	Responsible
12.1	CDR API Statistics	AEMO to establish if we can / then provide update on CDR volumes (API requests) back to Implementation forum	AEMO - Ongoing
12.2	CDR Workshop Agenda	Participants to either accept or decline the meeting request and to provide agenda items that they'd like to be discussed in the workshop	Participants -Closed
12.3	November Release Documentation	AEMO to Include target dates for outstanding November Release documentation updates in the May summary	AEMO Included in this pack - Closed
12.4	5.2 data model changes	AEMO to provide a functional briefing on the 5.2 data model changes in the next Implementation Forum meeting	AEMO – As part of Feb Workshop
12.5	r49 Tech Spec Q&A	Participants to provide level of interest in running a Q&A session with a focus on SAPS, potentially to be scheduled around the release of the r49 Tech Spec in early Feb.	Participants - In this Agenda
12.6	API implementation for MT PASA	Participants to provide feedback via NEM2025 Mailbox on feasibility of API implementation for MT PASA by 9th October 2023	Participants - Closed will be optional for uptake
12.7	tranche 2 metering volumes	Provide update on tranche 2 metering volumes as at end December – for Jan implementation forum	Participants – Closed update in this agenda

The latest meeting minutes and materials are available on the [Implementation Forum](#) webpage.

3. March 2023 Release

Milestone Review



March release to support

- Registration of SGAs to provide Contingency FCAS
- Registration of MSRP to provide support SAPS
- AEMO internal Testing in progress, on track to support Pre-prod release
- Draft EMMS Data model specification 5.2 released 30/11
- AEMO replanning Scope and timing of EMMS Data Model 5.2 in line with ADC reschedule
- Industry Test support via ITWG
- Industry Go-Live plan in development

Data Model Review – EMMS 5.2

- EMMS Data Model changes support a number of NEM Reform and BAU Initiatives
- It is AEMO's intent to minimise the number of data model releases whilst supporting data availability in line with initiative go-lives
- Release 5.2 supports:
 - ADC – Previously live March 23, currently rescheduled
 - FFR – Go-Live October 23
 - SAPS – Settlement updates, Go-Live 30 May 23
- AEMO is planning to Reschedule the scope of Data Model 5.2 to include support for the Increased MT PASA changes – Go-live October 23
 - If successful this will eliminate the requirement for a 5.2.1 release prior to October go lives of FFR, and Increased MT PASA along with rescheduled ADC
- Release Data to Pre-prod/ Prod will be in line with support for SAPS (May 23) as first initiative now impacted
 - If Increased MT PASA specifications cannot be included prior to this release they will be included in a 5.2.1 release as soon as confirmed.
- This approach is designed to limit the number of upgrade considerations for participants in supporting 2023 initiatives
- Confirmation of timing and updated milestones will be incorporated into initiative schedules in the next month

ADC delivery change

- IESS Rule introduces Aggregate Dispatch Conformance for participants with aggregate systems (e.g. solar farm plus BESS). These participants will – subject to some exceptions – be able to use ADC to firm the output of variable renewable energy resources.
- A stakeholder proposed an alternative aggregated dispatch conformance (ADC) solution sometime after the first ADC consultation had been completed.
- AEMO assessed the proposal as being feasible to implement and a better solution that will result in more participants using ADC.
- AEMO believes it appropriate to implement the alternative ADC design as soon as possible, but this will be later than the NER effective date (31 March 2023).
- **Progress on establishing optimal ADC date:**
 - AER/AEMC have been informed
 - Dispatch procedure is in process of being reconsulted (Final procedure on track for publication Fri 10 Feb)
 - AEMO will confirm the approach and timing for introducing ADC shortly.

4. SGA Engagement & Communications for Go-Live

SGA Engagement and Comms Go Live

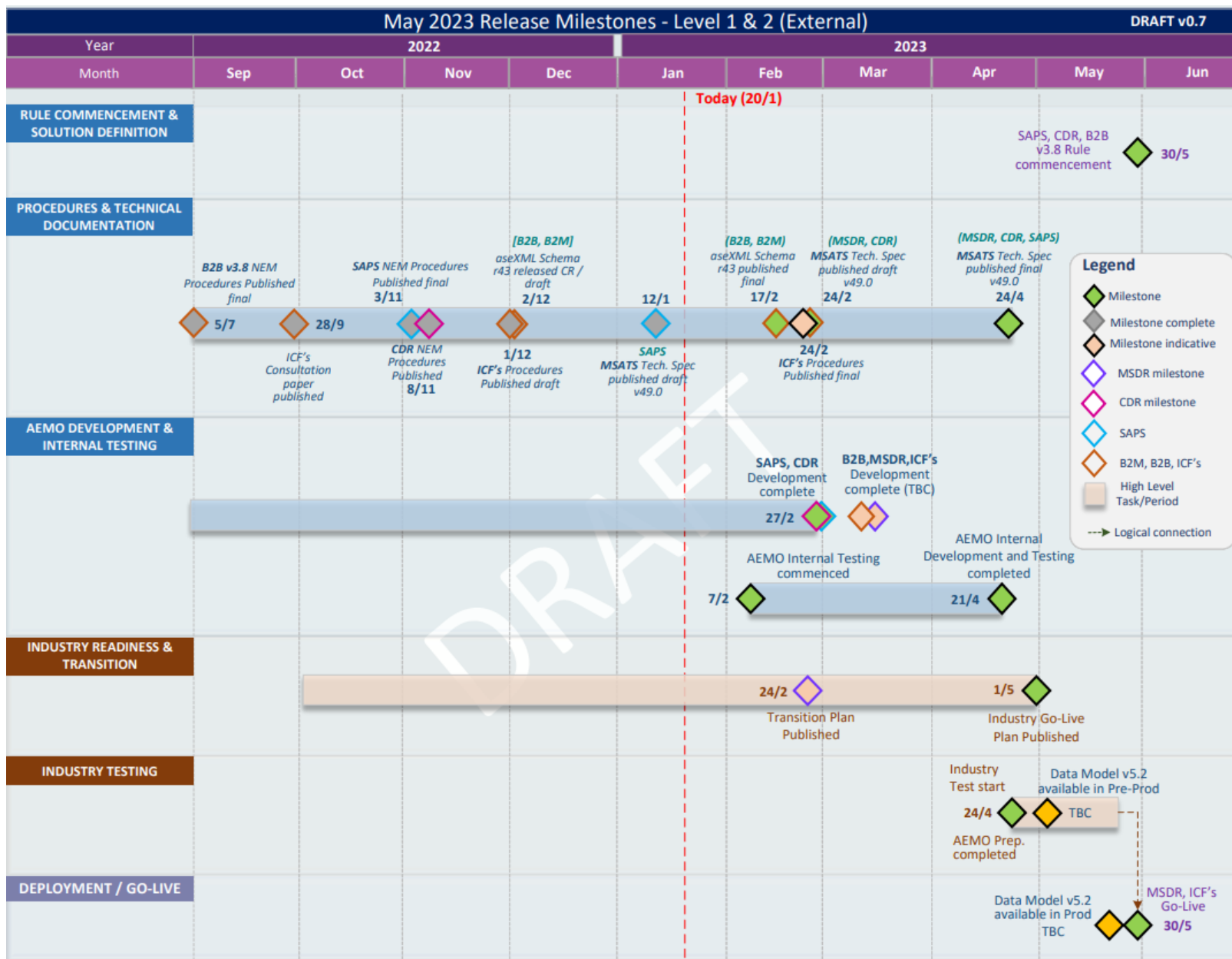
In preparation for the 31 March release, AEMO is planning the following activities to ensure participants are kept informed:

Activity	Timing	Status
Engagement to establish intending participants	31 January 23	Close to final
Publication of Industry go-live plan to communicate key AEMO activities for the production implementation and activation of initial release capability	15 February	In progress
Formal Go Live Announcement	31 March 23	Not started
IESS Project website notice	31 March 23	Not started
Registrations accepted from SGAs	31 March 23	Not started
AEMO Communications notice	6 April 23	Not started
Potential Stakeholder Q&A session	April-May 23	Not started

Resources to assist SGAs to assess, prepare and participate in FCAS are available through the IESS Participant Toolbox [here](#).

5. May 2023 Release

Milestone Review



Release Commentary

- aseXML r43 schema draft provided 2/12/22. Consultation on the schema closed on 18/1/23. ASWG meeting to finalise on 27/1/23.
- Metering Exemption capability has been deferred from May Release.
- MSATS v49.0 tech spec draft published 12/1/23.
- ITWG meeting 25/1 with focus on testing approach for May including planned timeframes for environment refresh
- AEMO development and testing is proceeding with some pressures being managed in relation to SAPS components – release remains on track for May delivery

Deliverable Update

Deliverable	Content	Status	Initial Release	Final Release
PACKAGE 1 – Blind Update Tool (MSATS Release 47.2)				
MSATS Technical Specification (v47.2)	Describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems	Final published	11-Mar-22	07-Oct-22
Guide to CSV Data Format Standard	Updated with new fields required for the Blind Update Tool (BUT). Note: <i>No material updates required, further updates/corrections will be communicated via MSUG</i>	Final published	02-Mar-22	15-Dec-22
Guide to MSATS Web Portal	Updated with: <ul style="list-style-type: none"> Using the Blind Update Tool (BUT) interface How to construct payloads for the web and API interfaces. Blind Update Tool (BUT) validation matrix 	Final published	17-Jun-22	02-Aug-22
Blind Update Tool API Reference	Updated with Blind Update Tool APIs	Final published	17-Jun-22	02-Aug-22
Enumeration publication	A list of enumerations with Code groups and descriptions. Note: <i>Proposed ENUMs have been published in the Pre-Prod Markets portal. Final publication to the Production Markets Portal pending approval.</i>	Final published	02-Aug-22	26-Aug-22
PACKAGE 2 – MSDR core changes & B2B v3.7 (MSATS Release 48.0)				
MSATS Technical Specification (v48.0)	Describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems	Final published	25-Jul-22	17-Oct-22
Technical Guide to MSATS	Updated to include information about the Blind Update Tool (BUT) and Snapshot report. This guide has been migrated to the Market Portal Help - Technical Guide to MSATS* and replaces the PDF guide.	Final published	N/A	7-Nov-22 15-Dec-22
Guide to MSATS reports	Updated with changes to MSATS C1 report and information about the Snapshot report. This guide has been migrated to the Market Portal Help - Reports And Alerts* and will replace the PDF guide.	Final published	N/A	7-Nov-22 15-Dec-22
B2M Mapping to aseXML	New guide detailing the mapping between the MSATS B2M procedures and the aseXML schema. A draft document was distributed B2M Mapping to aseXML in early December for participant review.	Draft published	05-Dec-22	TBA
Validation Module Matrix	Version 2.1 of the Validation Module Matrix to reflect the field validation requirements of B2B v3.7 Note: <i>Details documented in published MSATS Tech Spec 48.0</i>	Final published	02-Aug-22	19-Sep-22

* Market Portal is only accessible via a MarketNet connection at this stage

Deliverable Update (cont.)

Deliverable	Content	Status	Initial Release	Final Release
PACKAGE 3 – B2B v3.8 & MSDR Metering Exemption (MSATS Release 49.0)				
MSATS Technical Specification (v49.0)	Describes the projects and enhancements planned by AEMO from a participant perspective and includes the related changes to participants' IT systems	Draft published	12-Jan-23	24-Apr-23
aseXML schema (r43)	The aseXML r43 schema will be the current XML version for B2B and B2M following the May 2023 Release. The changes in r43 include: B2M updates supporting Stand alone Power Systems, Consumer Data Right and Retail ICFs, while the B2B changes include a new transaction type for Shared Fuse One Way Notifications.	Draft published	02-Dec-22	17-Feb-23

Load Profiling Methodologies & Metering Exemption Changes

- Load Profiling Methodologies
 - As per AEMO's 'Load Profiling Methodologies' consultation:
 - AEMO intends on implementing the determined longer-term **5MLP** methodology on 1 October 2023
 - The recommended timings and approach to industry testing and release planning will be provided at the next Implementation Forum meeting
 - Further analysis is required to consider the preferred **NSLP** methodology. Methodology options will form part of a formal consultation later in the year
- Metering Exemption Changes (MSDR)
 - Metering Exemption capability has been deferred from May Release.
 - Implementation Date and associated milestones to be provided for next Implementation Forum
 - Activities will Transition approach for exemptions, Approach to Industry Test and approach to Go-Live plans
 - Current operational processes for metering exemptions will be extended until go-live

6. SAPS & May Release Technical Specification Q&A Session (15 February)

Topics for walkthrough in February

Proposed topics for MSATS r49 Technical Specification walkthrough scheduled for 15 February 2023:

- aseXML r43 changes
- B2B
- Shared Fuse One-Way Notification
 - r43 excludes proposed PersonName Group Changes
- B2M
 - SAPS New elements
 - CDR Last Consumer Change Date field
 - ICFs to be delivered in May release
- SAPS changes for EMMS Data Model
- SAPS RM & C1 Report Changes
- Milestones for the May Release

7. SAPS Design Update

SAPS Resource Provider

- From 31 March 2023 a DNSP or Third Party will be able to register with AEMO as a *SAPS Resource Provider*
- DNSPs that intend to register as a *SAPS Resource Provider* must have regard to the *Distribution Ring-Fencing Guideline*
- Application forms and guidelines are currently being developed and will be available prior to the registration date
- Registration of a *regulated stand-alone power system* within MSATS will not be available until 30 May 2023.
- An “AEMO SAPS Connection Point Check List” document for the registration of a new SAPS is currently in development and will be available prior to 30 May 2023.

Registration as a SAP resource provided as defined in NER clause 2.3

8. Industry Testing Arrangements & Progress (March & May)

Industry Testing – Go Live Plan

- Industry test for March release to commence 1st March
- Scope of testing
 - Registration of SGAs (IESS)
 - Verification of bid submissions (IESS)
 - Registrations of MSRPs (SAPS)
- Go-live plan for March release will be available on 15th February
- Application information (FAQs and checklists) will be available on the AEMO Website ahead of the March go-live
- Registrations for SGAs and MSRPs to commence 31st March

Industry Testing - May Release

In addition to SAPS which is the largest change in the May release the following changes are also in the release:

- Introduction of two new CR to support Last Customer Change Date (LCCD) which will distinguish between the moving of a NMI between FRMP ID's within a Retailer from move to different Retailer. This change is in support of CDR functionality
- Update of B2M to r43 to support the new LCCD field, C1 and RM51 report
- Additional tables available for C1
- Update of B2B to r43 with a new OWNX for the communication of shared isolation flag
- NMI discovery change to type 3 discovery (130 business days)
- Change to CR3101 to validate greenfield site network tariff code
- Allow ENMs visibility to parent NMI standing data
- House Number To Suffix' is a part of the Australian structured address standards and available in B2B and B2M r43.

Testing for the May 2023 Release.

- Two approaches will be used for the May release, industry testing for the non SAPS changes and invitation testing for SAPS
- Request for interested parties for the invitation testing of SAPS is requested by 15th Feb to allow for planning and preparation
- Q&A sessions will be held during the Pre Production testing period to support any participants testing and requiring assistance and track the invitation testing progress

Invitation Testing

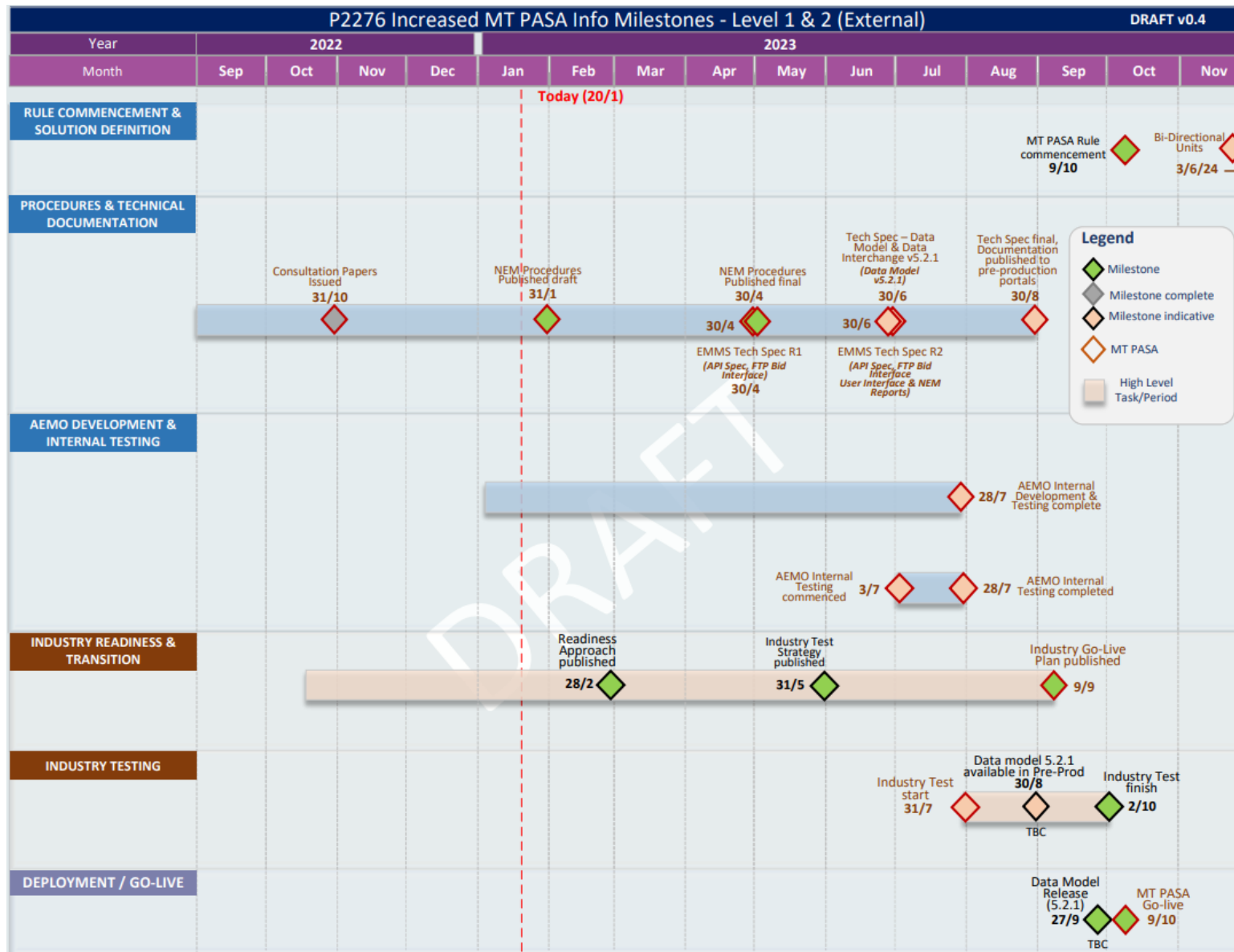
Suggested Tests	Participants
Invitation for interested parties to very SAPS set up	MSRP/FRMP/LNSP
Verify additional validations to CR's as part of SAPS	LNSP/FRMP
Settlement run for SAPS (if interest is high enough)	LNSP/FRMP/MSRP

Industry Testing

Suggested Tests	Participants
C1 updates – additional tables available for participants	ALL
B2B Schema r43	ALL
B2M Schema r43	ALL
'House Number To Suffix' is a part of the Australian structured address standards.	ALL
Updating Network Tariff for a Greenfield NMI	ALL
Allow ENMs visibility to parent NMI standing data	ALL
Extend the current 130 business day limitation on NMID3 requests.	ALL
New field and CR 5056/5057 – Last consumer change date (LCCD)	FRMP
Verify changes to child NMI standing data	ALL
Change to CR3101 to validate greenfield site network tariff code	LNSP
Verify NMI discovery change to type 3 discovery (130 business days)	FRMPs
Verify additional validations to CR's as part of SAPS	LNSP/FRMP

9. October 2023 Release

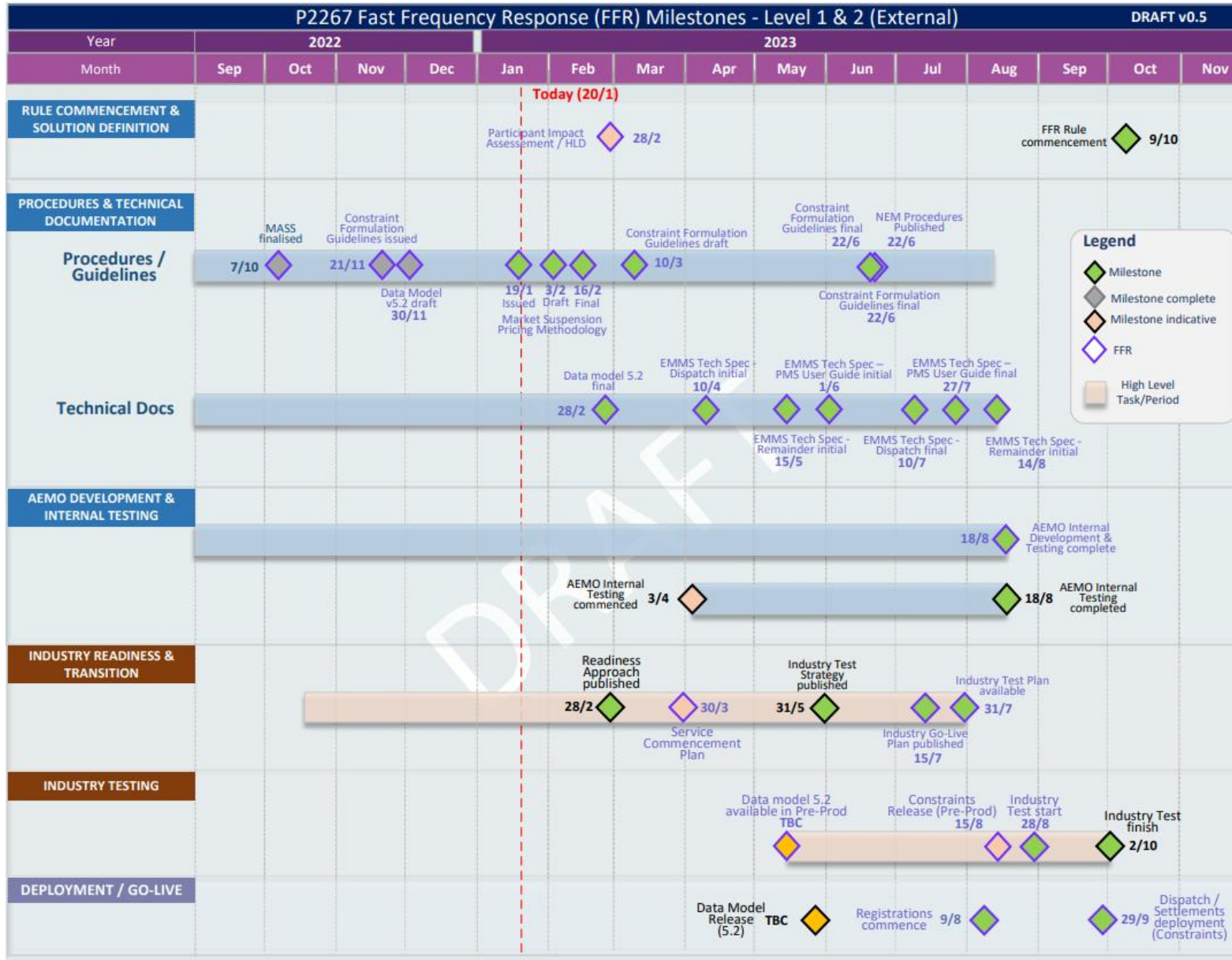
MT PASA Milestones and progress



Release Commentary

- Procedures consultation on track for draft to be issues 31/1
- AEMO IT Design in progress
- Readiness Approach outlining approach for participant implementation support under development.
- AEMO is considering including MMS data model changes for MT PASA in release 5.2(as part of rescheduled delivery)

FFR Milestones and progress



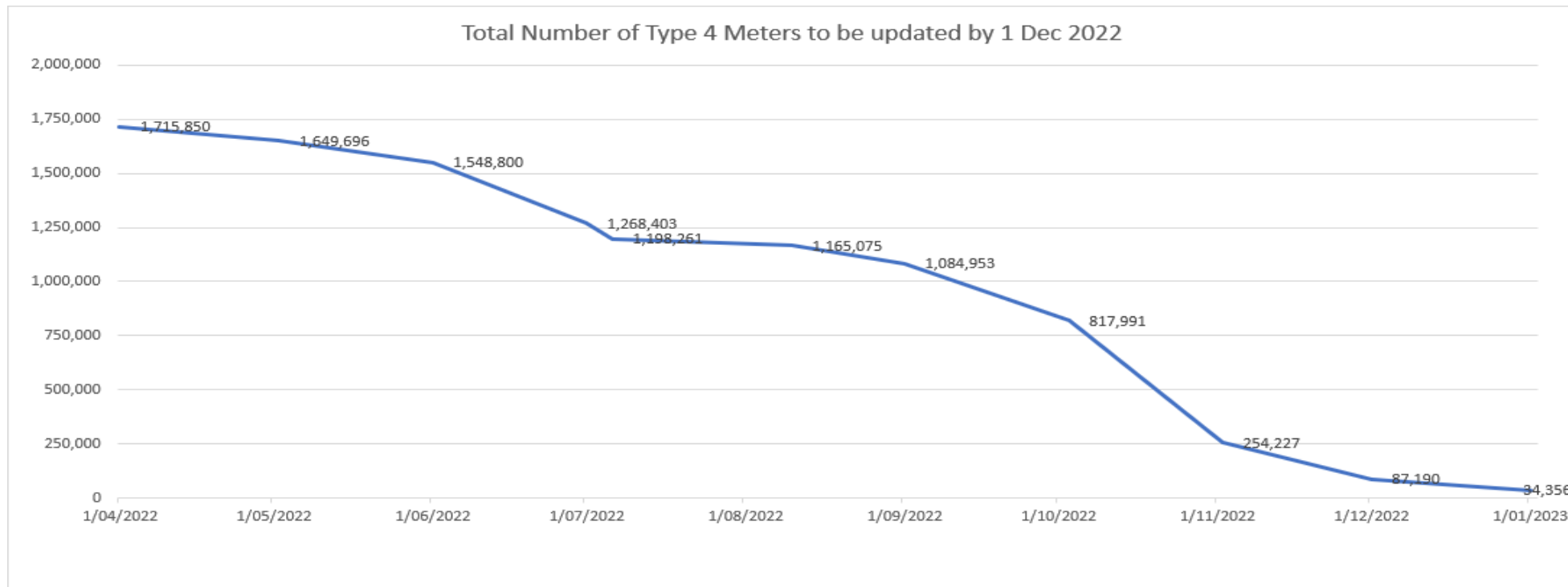
Release Commentary

- FFR Changes included in MMS 5.2 data model specification released 14/12
- Release 5.2 into pre-prod to be rescheduled to April (date tbc) for support of May release
- Readiness Approach for FFR to be provided for Implementation forum by 28 Feb- will outline approach to participant development support
- Service Commencement plan to provide outline of approach to operational implementation of new service
- Technical Specs for Bidding System updates to support FFR due 10/4

10. 5MS Tranche 2 Metering Rollout

Summary of Tranche 2 Metering Deployment

The following graph values were extracted from MSATS during 5 minute roll out process, with the latest values extracted on 03/01/2023.



Additional 5 minute facts:

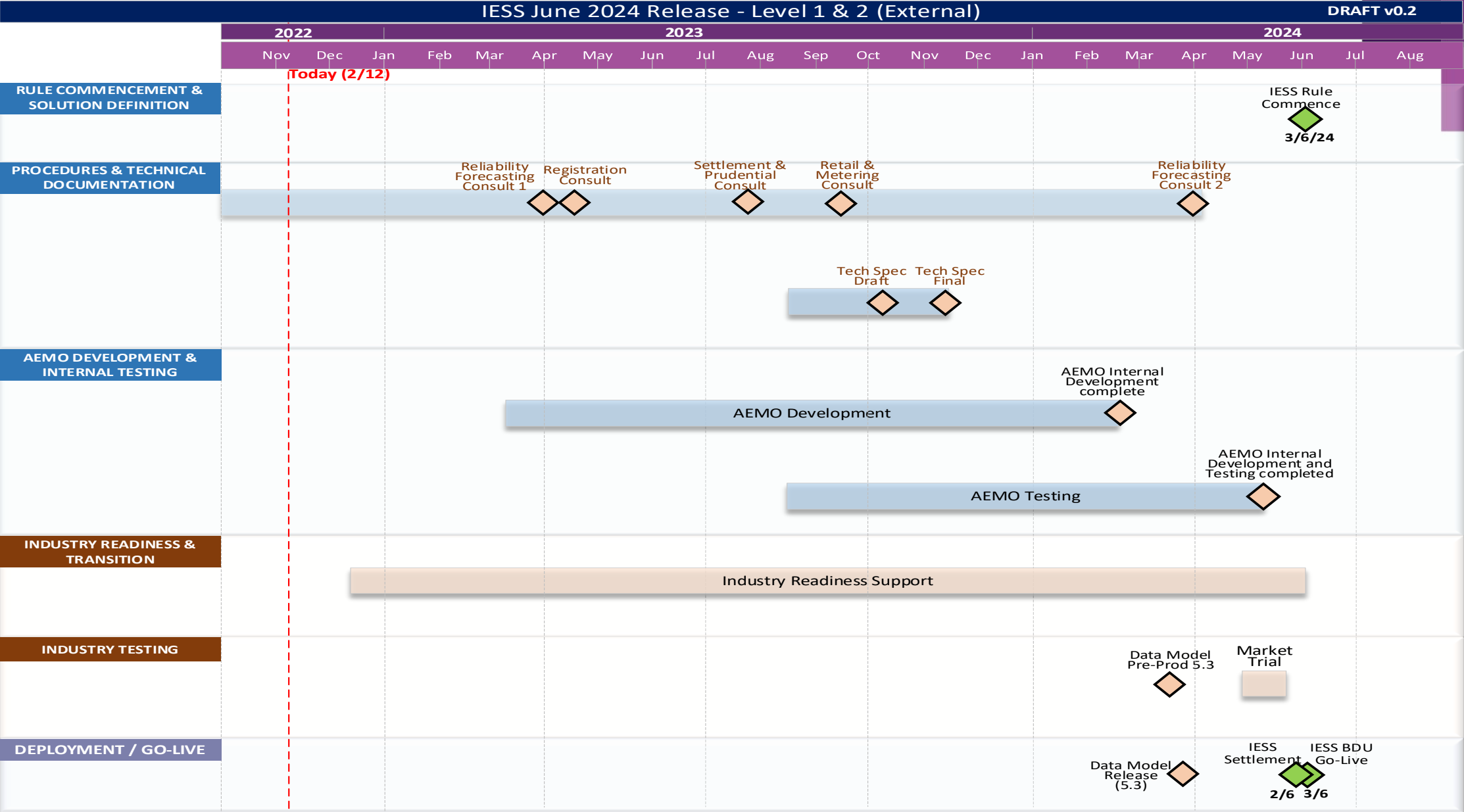
Type 1-3 & subset 4 – there are 60 meters that have not been configured for 5 minute reads (required by Oct 2021)

Pre 2018 Type 4 – there are currently 3,446,905 meters that are not required to be converted to 5 minute reads

Pre 2018 Type 4 – between July22 and Jan 23 – 203,277 meters were configured to 5 minute reads

11. June 2024 Release

Indicative IESS milestones – June 2024



June 2024 Release

IESS external milestones

- Indicative milestones in previous slide as per PCF
- Looking to formally develop L1/2 milestones in conjunction with the Implementation Forum / PCF
- Will present draft milestones for discussion at next meeting (end February)
 - Incorporate timing for technical specification , data model changes

IESS industry readiness approach

- Will also share a draft of industry readiness approach at next meeting. It will include consideration of:
 - Participant impacts
 - Proposed development support e.g. Tech Spec availability
 - Need for any readiness reporting
 - Industry Testing considerations
 - Development of go-live plans, transition plans and testing plans
 - Approach to go-live management

12. Upcoming Engagements

Upcoming Engagements

January						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30	31				

February						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28				

March						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

April						
S	M	T	W	T	F	S
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28
29	30					

Legend	
Program forums	
NEM2025 Program Consultative Forum	
Reform Delivery Committee	
Reform Delivery Committee - Collab W.	
Implementation Forum	
Electricity Wholesale Consultative Forum	
Electricity Retail Consultative Forum	
Industry Testing Working Group	
AEMO Consumer Forum	
All Stakeholder NEM Reform briefing	
Initiative specific meetings	
IESS Settlements stakeholder information session (TBC)	
IESS BDU stakeholder information session (TBC)	
SAPS & May Release Technical Specification Q&A	
Reliability Forecasting consultation workshop	
Other	
National Public Holiday	
State/Territory Public Holiday	

To learn more about these events, please visit AEMO's [Industry meeting calendar](#) or contact the program at NEM2025@aemo.com.au.

13. General Questions & Other Business



NEM2025@demo.com.au



Appendix A:

Competition law meeting protocol

AEMO Competition Law - Meeting Protocol

AEMO is committed to complying with all applicable laws, including the Competition and Consumer Act 2010 (CCA). In any dealings with AEMO regarding proposed reforms or other initiatives, all participants agree to adhere to the CCA at all times and to comply with this Protocol. Participants must arrange for their representatives to be briefed on competition law risks and obligations.

Participants in AEMO discussions **must**:

- Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
- Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
- Immediately and clearly raise an objection with AEMO or the Chair of the meeting if a matter is discussed that the participant is concerned may give rise to competition law risks or a breach of this Protocol

Participants in AEMO meetings **must not** discuss or agree on the following topics:

- Which customers they will supply or market to
- The price or other terms at which Participants will supply
- Bids or tenders, including the nature of a bid that a Participant intends to make or whether the Participant will participate in the bid
- Which suppliers Participants will acquire from (or the price or other terms on which they acquire goods or services)
- Refusing to supply a person or company access to any products, services or inputs they require

Under no circumstances must Participants share Competitively Sensitive Information. Competitively Sensitive Information means confidential information relating to a Participant which if disclosed to a competitor could affect its current or future commercial strategies, such as pricing information, customer terms and conditions, supply terms and conditions, sales, marketing or procurement strategies, product development, margins, costs, capacity or production planning.



For more information visit

aemo.com.au