

# 5MS & GS Systems Working Group #19

17 February 2020

# Agenda

No	Time (AEDT)	Agenda item	Presenter
1	10:00 – 10:10	Welcome, introduction and apologies	Graeme Windley
2	10:10 – 10:20	<u>Actions update</u>	Anne-Marie McCague
3	10:20 – 10:25	<u>Program Update</u>	Graeme Windley
4	10:25 – 10:30	<u>Staging environment</u>	Graeme Windley
5	10:30 – 10:40	<u>Industry Test Working Group update</u>	Tui Grant
6	10:40 – 10:45	<u>Readiness Working Group update</u>	Greg Minney
7	10:45 – 10:50	<u>Procedures update</u>	Simon Tu
8	10:50 – 10:55	<u>Forward meeting plan</u>	Graeme Windley
Stream Updates			
9	10:55 – 11:00	<u>Retail stream update</u>	Jim Agelopoulos
10	11:00 – 11:10	<u>aseXML schema update</u>	Paul Lyttle
11	11:10 – 11:20	<u>Retail Tech Spec updates</u>	Simon Tu
12	11:20 – 11:25	<u>Dispatch stream update</u>	Ian Devaney
13	11:25 – 11:30	<u>Settlements stream update</u>	Mark Hillaby
14	11:30 – 11:35	<u>Settlements &amp; Billing Tech Spec</u>	Pierre Fromager
15	11:35 – 11:50	<u>Dispatch &amp; Settlements Data Model</u>	Sangeeta Pai
16	11:50 – 12:00	<u>Reallocations Deployment</u>	Alex Alexander

# Open actions

Item	Action required	Responsible	Action update	By
18.3.1	AEMO to align Systems milestones with Readiness milestones.	AEMO	Milestones have been aligned and presented to the PCF in draft form. PCF is reviewing and will provide feedback. AEMO will finalised in advance of next PCF 5 Mar 20.	18/02/2020
18.5.1	AEMO to notify the SWG of the timeline for the ASWG consultation on the changes to the aseXML Schema once known.	AEMO	An update will be provided in SWG#19	When available
18.5.2	AEMO to circulate draft aseXML Schema when available from ASWG.	AEMO	Provided to SWG 12 Feb 20	When available
17.5.1	Participants impacted by the potential L2-M14, B2M via API Go- Live to email the 5MS program via the 5MS inbox in order for AEMO to set up a discussion.	Participants	Closed – no significant impacts identified.	
17.8.1	Participants to provide feedback via the 5MS inbox on making the reference field a mandatory ID, re 5MS rule change (3.13.4 (1)) does not mention 'ancillary service price' and whether this is not necessary, and submissions being limited to one per second.	Participants	Update will be provided SWG#19	
17.11.1	AEMO to come back to Participants on the difference between the Tier 1 basic metering data delivery and the Ongoing Tier 1 basic metering data delivery.	AEMO	Update will be provided SWG#19	

# Program Update

Graeme Windley

# Program update and current activities



## *AEMO program*

- Overall green. As reported B2M API Go-Live delayed. Proposal to be discussed within this session (see slide 26).
- Realignment of key milestones post-Readiness work to be reviewed with PCF (see slide 7).
- New Program Director, Rowena Leung, has joined the program from 10-Feb-20; replacing Sonja Nigmann.
- Industry information session held 23-Jan-20, over 80 participants attending via the Webex.



## *Systems*

- Minutes for SWG#17 and SWG#18 may not be complete due to poor audio. Request participants advise of any updates missed & potential corrections.
- 5MS Staging Environment live with updates from all streams. Participant usage has increased since December, however still relatively low
- The Settlements & Billing Tech Spec has been released to participants (20-Jan-20) and the Prudentials and Estimations Tech Spec has been released to participants (31-Jan-20).
- Internal retail, dispatch and settlements workstreams systems development on track to meet 30-Jun-20 development completion date.



## *Readiness*

- Transition and Go-Live and Industry Testing and Market Trial strategies finalised
- Metering Transition Plan (07-Feb-20) now finalised and MSP Accreditation Update Plan (target 13-Mar-20) to be finalised incorporating Industry feedback.
- Draft Industry Contingency plan issued for Review
- Initial Readiness Reporting survey issued 05-Feb-20.

# Level 2 Milestones Exceptions (External) Current as at 30-01-2020

Impact Assessment Required\*: Participants to provide feedback by Friday 21 February of internal program impacts

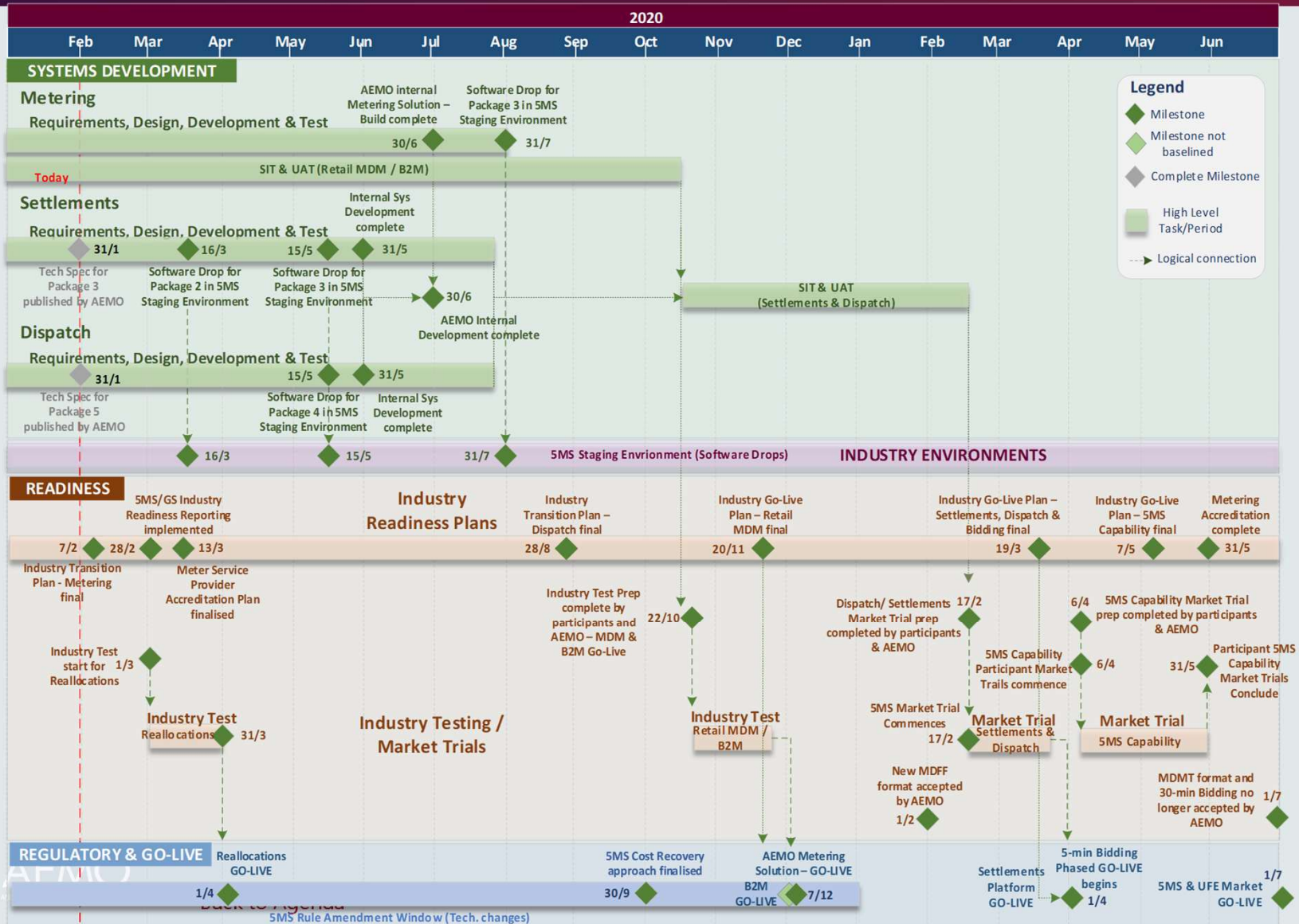
ID	Stream	Milestone	Planned Date	Expected Date	%	Comments
New L2-M14	Metering	B2M via API Go Live	17-Mar-20	07-Dec-20	70%	<p>AEMO has experienced delays establishing the MarketNet link to AEMOs new API Gateway in conjunction with the legacy SMP e-Hub API Gateway. AEMO proposes a new go-live date of 07-Dec-2020 which will align with the Milestone of the 30-min Metering solution go-live. This will allow time saving on additional testing, deployment and cutover activities required with two separate go-lives. Initially AEMO targeted a phased deployment from this activity, but due to the delay, advantages gained by this approach are minimal.</p> <p>Feedback received so far from market participants is that there is minimal advantage deploying this early (due to the low number of participants using the software).</p> <p>Presented to PCF 4 Feb.</p>

\*Slide is as presented to the PCF, note the proposal on slide 26

# System Program Timeline (Jan 20 to Jan '21)

## Level 1 and External Level 2 Milestones

DRAFT sent to PCF 7 Feb 2020



# Staging environment

Graeme Windley



# 5MS Staging Environment Update

Dispatch	Settlements	Metering
<u>DROP ONE – 29 November 2019</u> Submit 5-Min Bids, via new web interface, API and/or FTP Bidding Data Model changes as per technical specifications released July 2019 Case Loaders for PASA, Dispatch, 5-minute Pre-Dispatch & 30-minute Pre-Dispatch data	<u>DROP ONE – 1 November 2019</u> Reallocations: available at both 30 and 5-min intervals New Web UI Calendar selection Alerts	<u>DROP ONE – 1 December 2019</u> Test connection to Staging Test MDFF validations Validate data exchange
<b>Status:</b> Live <b>Participant interaction:</b> at least 6 participants accessing in January <b>Issues:</b> issues related to the tech specs, now addressed. API connectivity issues for some participants.	<b>Status:</b> Live <b>Participant interaction:</b> at least 6 participants accessing in January <b>Issues:</b> incorrect setup by participants of their user roles.	<b>Status:</b> Live <b>Participant interaction:</b> 2 participants accessing in January <b>Issues:</b> None identified
<u>DROP TWO – 15 May 2020</u>	<u>DROP TWO – 31 Jan 2020</u>	<u>DROP TWO – 31 July 2020</u>
Status: On track	<b>Status:</b> Data Model finalisation delayed to 20-Feb; UFE tables delivered with DROP THREE (SQL Server v Oracle environment delivery)	Status: On track
	<u>DROP THREE – 16 March 2020</u>	
	Status: On Track (content on next slide)	

# Staging Environment Update

- Settlements Package 3 is due to be deployed in the 5MS Staging Environment 16 March 2020.
- The initial deployment will be configured for 30-minute settlement only, with transition to 5-minute trading intervals and global settlement to follow.
- The functions being made available are:
  - Prelim, Final, and Revision Settlements
  - Invoicing (Tax Invoice, RCTI, Adjustment Note, etc)
  - Reconciliation reports (SR, SS, etc)
  - Data Interchange
  - Settlements Direct (Production version, no API's)
- The environment will initially use a data snapshot from the EMMS Production system, to be taken in early February 2020. Integration with the Dispatch and Reallocations staging environment will not initially be on offer.
- 5-minute metering and UFE data will be artificially created for the staging environment.

# Industry Test Working Group update

Tui Grant

# Industry testing working group - update

- Discussed bringing GS market test date forward. Consideration for the amount of data setup required by all parties if this date is brought forward does not provide as much benefit as leaving the testing in the currently scheduled date.
- There was a request to provide more detail on the scope of the planned releases than what was available in the test **strategy**. It was explained that the detail is driven by the RWG and the approach taken to updating market data. Now that this is more defined, test **plans** can be developed with a more detailed scope and approach to testing outcomes.
- Walk through of the schema changes and discussion on if/when this would be tested with the market and under which program.
- Discussion on performance testing to be performed by AEMO for ehub.

# Readiness Working Group update

Greg Minney

# Readiness papers - timelines

Item	RWG/ITWG/FG engagement	Draft paper	Consultation	Comments due	Final paper
Industry test and market trial strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Transition and go-live strategy	Jul-19	30-Sep	4 weeks	28-Oct	29-Nov
Metering transition plan	Aug-19 onwards	29-Nov	3 weeks	20-Dec	7-Feb-20
Industry contingency plan	Nov-19	20-Dec	6 weeks	31-Jan-20	13-Mar-20
Industry readiness reporting plan	Sep-19	31-Oct	3 weeks	21-Nov	13-Dec
MSP accreditation update plan	Oct-19	29-Nov	11 weeks	31-Jan-20	21-Feb-20

Major strategy positions established, workstream focus now on implementation of those strategies

# Workstream engagement

- Contingency Planning
  - Draft plan issued on 20<sup>th</sup> Dec, target final release 13<sup>th</sup> March
  - Consultation Feedback
    - Specification on key exception processes
    - Duration and timing triggers for contingency
    - Critical Mass Definition
  - Contingency approaches have been aligned with identified Industry Risks
- Readiness Reporting
  - Initial (full) readiness survey distributed 5<sup>th</sup> Feb
  - Will be distributed to RWG reps for submission
  - Readiness Report available 28<sup>th</sup> Feb for review with RWG/PCF
  - Reporting criteria differentiated by Participant type

# Workstream engagement

## Metering Transition Plan

- Final Plan issued 7<sup>th</sup> Feb
- Key updates:
  - Transition start dates for a number of activities
  - Clarifications regarding “from” and “by” dates in rules, procedures and transition plan
- Activities will be managed through industry readiness reporting and establishment of metering transition focus group

## Metering Accreditation Update Plan

- Feedback on Draft plan received 31<sup>st</sup> Jan, plan to be finalised 21<sup>st</sup> Feb
- Establishing level of change, timing requirements for accreditation updates
- Guidance questions issued to assist assessment of scale of change, and to assist in queue management and timing



# 5MS/GS procedures update

Simon Tu

# Metering procedures update

- ERCF
  - Currently quarterly, then every two months in 2020
  - Met on 21 November
  - 5MS/GS ICFs: RWD5; customer details on inventory table
  - <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/Electricity-Retail-Consultative-Forum>
- B2B
  - Meets monthly (IEC meets quarterly)
  - Met on 15/16 January
  - Release v3.4 of B2B procedures commenced consultation. Considers:
    - MDFF file size 10MB
    - MDFF 1,000 transaction limit in file
    - non-contestable unmetered loads – use of existing B2B transactions for this family of NMI
  - <https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/B2B-Working-Group>

# 5MS/GS-related procedure change log

Procedure issue	Status
MDFF file size and transaction limit in file	<p>Initial feedback to first stage B2B procedures consultation showed majority support for:</p> <ul style="list-style-type: none"> <li>• MDFF file size 10MB</li> <li>• MDFF 1,000 transaction limit in file</li> <li>• non-contestable unmetered loads – use of existing B2B transactions for this family of NMIs</li> </ul>
Proposed Procedural Change to MDFF Quality flag	AEMO will submit an ICF for ERCF consideration in February
Proposal for RWD	ICF considered at ERCF (21 Nov), to be progressed in 2020 as part of the MSATS standing data review (Feb to June 2020) with consideration of 5MS/GS metering transition activities.
Removal of end user details from inventory table	ICF considered at ERCF (21 Nov), to be progressed in 2020 with consideration of 5MS/GS metering transition activities
TNI 2 for cross-boundary meters	<p>SWG has been briefed on requirements.</p> <p>While Participants don't have to populate the TNI2 field (AEMO will, similarly to NSP2), they will have to ensure that their systems can <b>receive</b> TNI2.</p> <p>AEMO is preparing an ICF to include TNI 2 in the MSATS standing data review consultation (Feb to June 2020) with consideration of 5MS/GS metering transition activities.</p>

# Timeframes for prospective 5MS metering procedure changes

## Issues:

- Metrology procedures have a mandatory 3-month lead time from finalisation date to effective date
- There **may** be a need to do a procedure change consultation for 5MS and GS metering procedures if issues emerge through readiness and implementation activities
- There **will** be a need to do a “wash-up” consolidation of procedural changes for 5MS/GS and other changes separate to 5MS/GS

## Approach:

- “Wash-up” consolidation can occur with a short-form consultation as each separate change will have already been consulted on.
- If a full, 6-month consultation for 5MS and GS impacts to metrology procedures is required, then consultation needs to be complete by 1 April 2021 for a 1 July 2021 effective date
- Therefore the latest AEMO can start a full procedure consultation is:
  - 1 Oct 2020 if including Metrology procedures
  - 1 Jan 2021 if not including Metrology procedures
- **AEMO and participants will monitor potential procedure changes via 5MS forums, B2B, ERCF and, importantly, via 5MS readiness reporting**
- If material procedure issues arise after 1 Sep 2020 then AEMO will do an impact assessment at the time to determine its approach in consultation with affected parties

# Retail stream update

Jim Agelopoulos

# Systems Workstream - Metering

Current as at 10 Feb 2020

1. Production date aligned with Production milestone "L2-M10 New MDFF format accepted by AEMO" tracked via Readiness Stream.

2. B2M via API User Guide release date adjusted from 17-Feb-20 to 31-Jul-20

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	SMS Staging	Preprod	Production
<b>METERING</b>										
<b>PACKAGE 1 - Metering Data &amp; Metrology</b>										
<b>MDFF</b> • MDFF Specification NEM12 NEM13 v20	Aug-18	Oct-18	Oct-18	Nov-18	Jan-19	Apr-19	-	1-Dec-19	22-Oct-20	01-Feb-21
<b>PACKAGE 2 - MSATS &amp; SLPs</b>										
<b>Transition</b> • MSATS Technical Specification	Aug-18	Sep-18	Aug-18	Nov-18	31-May-19	30-Sep-19	-	-	-	-
<b>Meter Data - MDFF and MDMF</b> • MDM File Format and Load Process (User Guide) • MSATS Technical Specification	Aug-18	Oct-18	Sep-18	Nov-18	31-May-19	30-Sep-19	-	1-Dec-19	22-Oct-20	01-Feb-21
<b>PACKAGE 3 - Miscellaneous</b>										
<b>B2M via API</b> • MSATS Technical Specification	Oct-18	-	Apr-19	9-May-19	31-May-19	30-Sep-19	31-Jul-20 (TBC)	N/A	22-Oct-20 (TBC)	07-Dec-20 (TBC)
<b>MSATS Browser (LVI) changes</b> • MSATS Technical Specification	Aug-18	-	May-19	9-May-19	28-Jun-19	30-Sep-19	31-Jul-20	31-Jul-20	22-Oct-20	07-Dec-20
<b>MSATS Report changes</b> • MSATS Procedures MDM Procedure • MDM File Format and Load Process (User Guide) • MSATS Technical Specification General Process & Document Clean-up	Oct-18	-	Apr-19	Apr-19	28-Jun-19	30-Sep-19	-	31-Jul-20	22-Oct-20	07-Dec-20

3. Pre-Production date(s) aligned with AEMO readiness milestone "L2-M12 Industry test preparation completed by AEMO for MDM and B2M Go-Live" tracked via Readiness Stream.

4. Production date(s) aligned with "L1-19 AEMO Metering Solution - Go-Live" milestone tracked via Readiness Stream.

5. Pre-Production date(s) aligned with AEMO readiness milestone "L2-M12 Industry test preparation completed by AEMO for MDM and B2M Go-Live" tracked via Readiness Stream.  
*Note: This may be brought forward to align with Customer Switching MSATS PrePod release in Q3 (TBC)*

6. Production date(s) aligned with "L1-19 AEMO Metering Solution - Go-Live" milestone tracked via Readiness Stream.  
*Note: This may be brought forward to align with Customer Switching MSATS Prod release early in Q4 (TBC)*

# aseXML schema update

Paul Lyttle

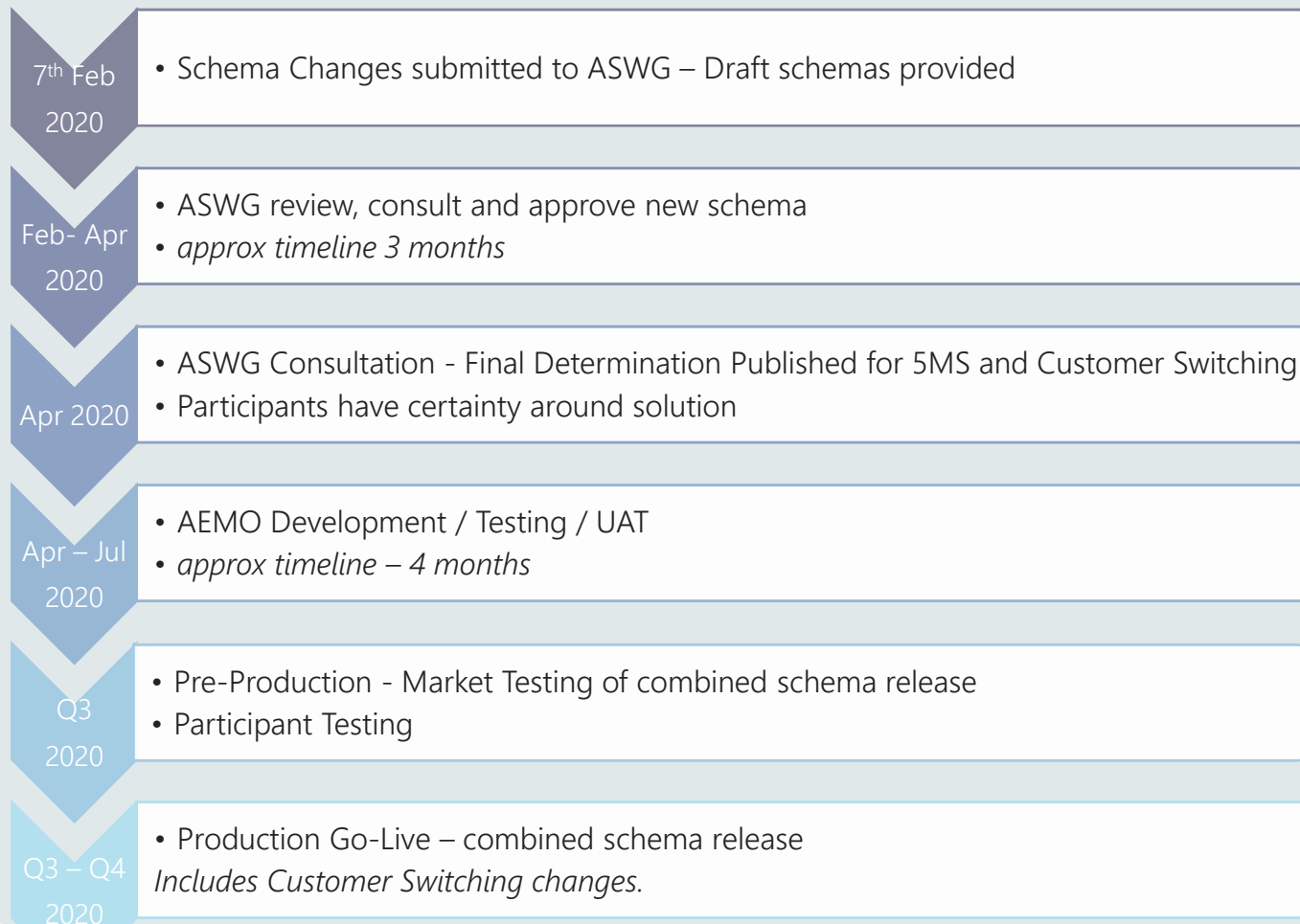
# aseXML schema progress

- Technical design and schema drafts have been completed.
- ASWG meeting was held on the 7 February 2020
- ASWG consultation process will continue over the next 2-3 months
- Copies of the “DRAFT” schemas have been distributed with this presentation.
- Customer Switching change consultation to be completed March 2020.



# aseXML Schema Changes – Schedule

## Current Proposed schedule (updated) –



# Retail Tech Spec Updates

Simon Tu

# MDM File Format and Load Process

- MDM File Format and Load Process v5.01 has been reopened for changes due to ERCF and B2B IEC working group consultation
- Pg 18: Update based on ERCF 'Proposed Procedural Change to MDFF Quality flag' item

Field Name	Field Format	Example
Status	<p>Status of the Meter Reading for each 30-minute interval value (there can be 48 A characters included for each Data Stream).</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>- A (Actual)</li> <li>- E (Estimated)</li> <li>- S (Substituted)</li> <li>- F (Final Substitutions)</li> <li>- N (Null where no Metering Data exists)</li> </ul> <p>For details about quality flags, see <b>Metrology Procedure: Part B.</b></p>	<p>AAAAAAAAAAAAAAAAAAAA</p> <p>AAAAAAAAAAAAAAAAAAAA</p> <p>AAAAAAAAAAAA</p> <p>Or</p> <p>AAAAAASSSSSSAAAAA</p> <p>AAAAAAAAAAAAAAAAAAAA</p> <p>AAAAFFFFFAA</p>

- Pg 26: Update based on proposed B2B IEC 'MDFF file size and transaction limit in file' item

## File size

Participants must ensure the messages containing aseXML transactions do not exceed an uncompressed message size of:

- 10 MB for MTRD
- 1 MB for MDMT

An MTRD must not contain more than 1000 bundled transactions i.e. one MTRD PMD file > one message > max 1000 transactions

10 MB for both MTRD and MDMT.

# MDM File Format and Load Process

- Pg 16 and 18: Update to the MDMF CSVConsumptionData and CSVIntervalData Reading field format

Field Name	Field Format	Example
Reading	<p>This is the actual consumption value in KWh for the period supplied (FromDate to the ToDate) and signed to indicate import or export.</p> <p>Meter Reading at (ToDate – FromDate) = consumption reading.</p> <p>All values are inclusive of meter multipliers, so all consumption values and Meter Readings are multipliers adjusted.</p> <p><del>The numeric value for Readings in KWh must conform to number(17,4) must be supplied to three decimal places.</del></p>	1398.6675

- Pg 44 and 57: Clean up of the Appendix 1 Consumption Meter Data Record date relationship examples

# Dispatch stream update

Ian Devaney

# Systems Workstream – Dispatch & Operations

10:40 -10:45

Current as at 13 Jan 2020

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	SMS Staging	Preprod	Production
<b>DISPATCH and OPERATIONS</b>										
<b>PACKAGE 1 - Bidding FTP and API</b>										
Transition	Aug-18	Oct-18	Aug-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
Bidding Data Model	Aug-18	-	Sep-18	Mar-19	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
Bidding Format	Aug-18	-	Sep-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
<b>PACKAGE 2 - Bidding Web UI</b>										
Bidding Web UI and APIs	Aug-18	Nov-18	Dec-18	Jan-19	Mar-19	31-Jul-19	16-Dec-19	29-Nov-19	Nov-20	Mar-21
<b>PACKAGE 3 - Dispatch, Pre-dispatch and PASA</b>										
Dispatch	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Mar-21
Predispatch P30/7DAY	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Mar-21
Predispatch P5	Nov-18	Oct-18	Nov-18	TBC	TBC	TBC	-	TBC	Nov-20	May-21
ST and PD PASA	Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Mar-21
<b>PACKAGE 4 - Pricing and Miscellaneous</b>										
Trading Price / Price Revision	Aug-18	-	Feb-19	Nov-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Administered Pricing and CPT	Aug-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Suspension Pricing	Sep-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	May-21
Negative Residue Management	Sep-18	-	Feb-19	Dec-18	Jun-19	31-Jul-19	-	15-May-20	Nov-20	May-21
RERT	Oct-18	-	-	-	-	-	-	-	-	-
<b>PACKAGE 5 - Full Data Model</b>										
Full Data Model	Sep-18	Ongoing	Ongoing	Apr-19	Ongoing	31-Jan-20	31 Mar 20	29-Nov-19	Nov-20	May-21

# Format and Validation for Energy, FCAS, and MNSP Bids and Offers

Pierre Fromager

# Bids submission by FTP

- Throttling – 1 file per second?
- FTP File server address to be updated Prod and/or Preprod (currently, both are the same).
- Reference ID was changed to be optional but the document (and the JSON schema in particular) still show this as mandatory.



# Settlements stream update

Mark Hillaby

# Systems Workstream - Settlements

Current as at 10 Feb 2020

5 MINUTE SETTLEMENT SYSTEMS TRACKING	TIMING									
	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	SMS Staging	Preprod	Production
<b>SETTLEMENTS</b>										
<b>PACKAGE 1 - Reallocations</b>										
Reallocations	Dec-18	Nov-18	Dec-18	Mar-19	31-Jul-19	15 Oct 19	1-Nov-19	1-Nov-19	1-Mar-20	1-Apr-20
<b>PACKAGE 2 - Settlements and Billing</b>										
Settlements	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Nov-20	May-21
Billing	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Nov-20	May-21
<b>PACKAGE 3 - Prudentials and Estimation</b>										
Prudentials	Sep-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	15 May 20	15 May 20	Nov-20	May-21
Estimation	Oct-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	-	15 May 20	Nov-20	May-21
Full Data Model	Refer DISPATCH									

# Settlements & Billing Tech Spec updates

Pierre Fromager

# Settlements & Billing Tech Spec

- Settlements Direct, as mentioned in the Tech Spec, “allows participants to access data, subscriptions, message delivery logs and calendars to the EMMS Wholesale Market System”.
- It “is a web-publishing application providing participants with access to reports and statements published by AEMO. The primary delivery for your settlement statements is the Participant File Server— retrieving information from Market Direct is an additional resource for your convenience.
- APIs are an added convenience. They are not replacing the participant file server or the Data Interchange.

# Data model for Dispatch & Settlements Version 5.0

Sangeeta Pai

# Data model for Dispatch

- AveragePrice30 table is removed from v4.30 release and added in the latest v5.0.0.1 release.
- Billing and Settlements data model changes will be added to v5.0.0.1 alter script.
- PeriodID column is removed from DISPATCHLOAD and DISPATCHREGIONSUM data model tables.
- There are other changes:
  - BIDOFFERPERIOD :
    - DUID – change to VARCHAR2(20)
    - All fields in this table with datatype NUMBER(6) – change to NUMBER(8,3)
  - MNSP BIDOFFERPERIOD:
    - LINKID – change to VARCHAR2(20)
    - All fields in this table with datatype NUMBER(6) – change to NUMBER(8,3)

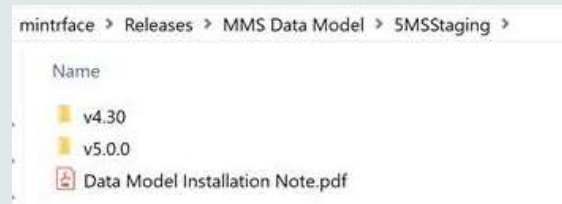
# Data model for Dispatch

- To align the capability of Oracle installations with SQLServer the new fields BidOfferPeriod.OfferDateTime and MNSP\_BidOfferPeriod.OfferDateTime are defined as data type 'TIMESTAMP(3)'
- For this to be effective we must also change the OfferDate fields from 'DATE' to 'TIMESTAMP(3)' in the existing tables:
  - BidOfferFileTrk
  - BidDayOffer
  - MNSP\_DayOffer
- This change will apply to existing tables. Participants must be aware of this and manage their Bids transition from 30-minute to 5-minute.
- For participants using pdrLoader v7.4.1 or previous version and using **Oracle** Installation should add below statement in pdrLoader.properties

```
db_conn_init_sql=ALTER SESSION SET NLS_TIMESTAMP_FORMAT='YYYY/MM/DD  
HH24:MI:SS.FF3'
```

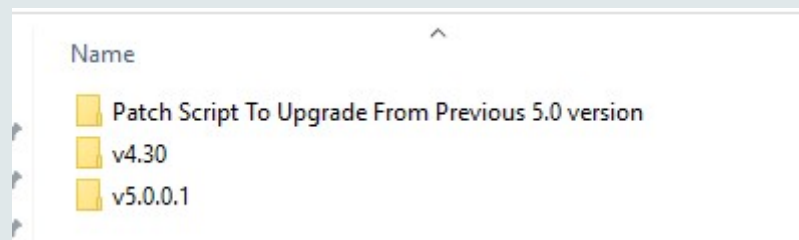
# Data model incremental releases

## Current Release:



## Incremental Releases:

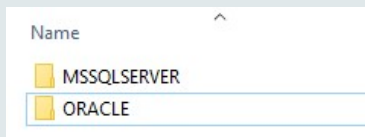
- Participants currently on v5.0.0 and do not wish to reinstall the data model will have to manually run the patch script for every release from the "Patch Script To Upgrade From Previous 5.0 version" folder.
- v4.30 folder will be deleted from the Staging after this version is released in production.
- New Participants will have to then install release v4.30 from the Production Releases folder.



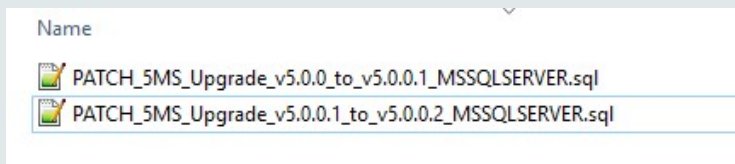


# Data model incremental releases

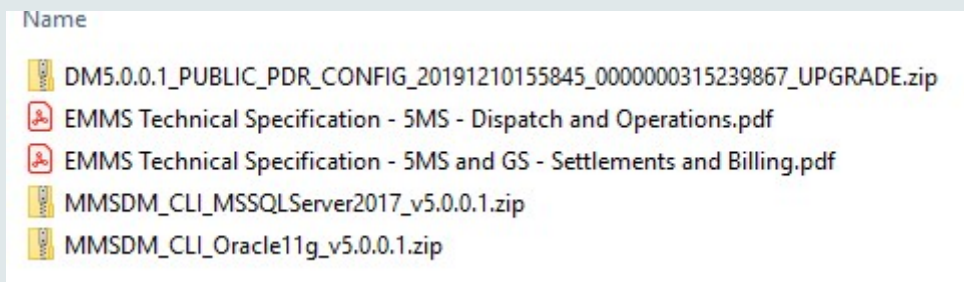
- The Patch folder will have 2 sub folders as below:



- Each sub folder will have the incremental patch scripts which participants will have to run manually on their staging database.



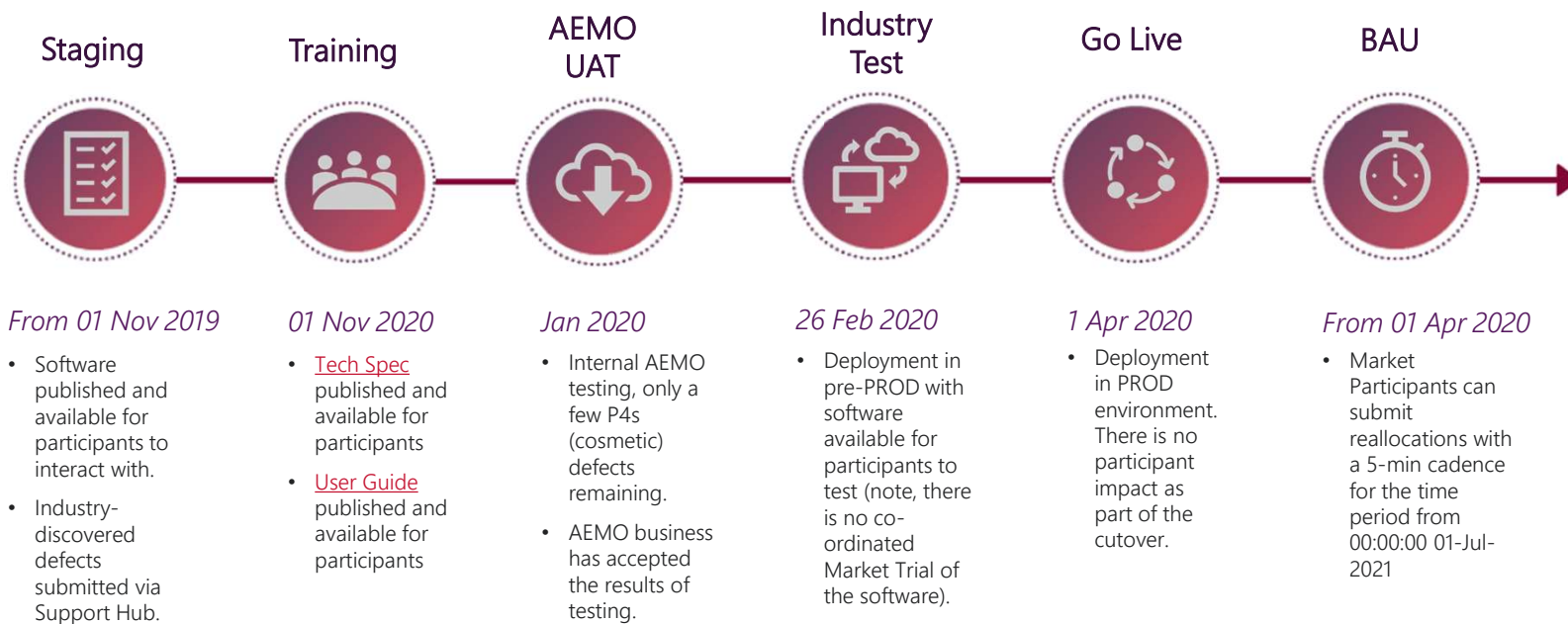
- The main latest folder version will be incremented with every release. Participants setting up their staging environment for the first time should use the release from this main folder.
- v5.0.1 release will include Dispatch and Bidding changes as well and Billing and Settlement changes.



# Reallocations Deployment

Alex Alexander

# 5MS Release 1: Reallocations



# Forward meeting plan

Graeme Windley

# Proposed upcoming SWG meeting content

Date	Meeting	Proposed content
Mon 16 Mar 2020	SWG #20	<ul style="list-style-type: none"><li>• Topics tba</li></ul>
Mon 20 Apr 2020	SWG #21	<ul style="list-style-type: none"><li>• Topics tba</li></ul>

# Upcoming meetings

<https://aemo.com.au/initiatives/major-programs/nem-five-minute-settlement-program-and-global-settlement>

Current as at 29/01/2020

FEBRUARY						
Su	Mo	Tu	We	Th	Fr	Sa
26	27	28	29	30	31	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
1	2	3	4	5	6	7

MARCH						
Su	Mo	Tu	We	Th	Fr	Sa
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	1	2	3	4
5	6	7	8	9	10	11

APRIL						
Su	Mo	Tu	We	Th	Fr	Sa
29	30	31	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	1	2
3	4	5	6	7	8	9

Forums/Working Groups	
Executive (EF)	
Program Consult. (PCF)	
Procedures (PWG)	
Systems (SWG)	
Readiness (RWG)	
Industry Testing (ITWG)	

Focus Groups	
Dispatch	
Metering	
Settlements	
Transition	
Industry Testing	
Reconciliation	
Contingency	

Other	
Information Sessions	

National Public Holiday	
State Public Holiday*	

\*Relevant state has been marked in a comment. WA, NT, TAS, ACT holidays have not been marked.

