

5MS & GS Systems Working Group #22

20 May 2020

Agenda

No	Time (AEST)	Agenda item	Presenter
1	10:00 – 10:05	Welcome, introduction and apologies	Graeme Windley
2	10:05 – 10:15	Actions update	Anne-Marie McCague
3	10:15 – 10:25	Program update	Graeme Windley
4	10:25 – 10:35	r39 Schema review summary	Paul Lyttle
5	10:35 – 10:55	Day 1: Minimum Requirements (all streams)	Simon Tu / Pierre Fromager
6	10:55 – 11:00	Industry Testing Working Group update	Tui Grant
8	11:00 – 11:10	Readiness Working Group update	Greg Minney
9	11:10 – 11:15	Procedures update	Simon Tu
10	11:15 – 11:20	Forward meeting plan	Graeme Windley
Strea	am Updates		
11	11:20 – 11:25	Retail stream update	Jim Agelopoulos
12	11:25 – 11:30	Dispatch stream update	Ian Devaney
13	11:30 – 11:40	Staging Deployment	Ian Devaney / Tui Grant
14	11:40 – 11:50	Data Model Update	Sangeeta Pai
15	11:50 – 11:55	Settlements stream update	Mark Hillaby
16	11:55 – 12:05	Staging Deployment	Mark Hillaby / Tui Grant



Actions Update

Anne-Marie McCague



Open actions

capability go live impacts on participants, per stream.

AEMO to confirm when MDM Procedures v4.0 will be

updated to reflect approved CR18.

Action required

21.8.1

ItCIII	Action required	ricaportalbic	Action a paate	UUy
21.4.1	Participants are requested to advise 5ms mailbox if they wish to go to Pull for B2M message exchange.	Participants		20/05/2020
21.4.2	AEMO to arrange a Focus Group on aseXML Schema r39 and the impact of the schema updates on participants' systems updates for 5MS and Customer Switching.	AEMO	Completed on 11 May. Pack is included within Appendix One.	11/05/2020
21.4.3	AEMO to confirm how participants will be notified when new datastream type codes are used when still on the r38.	AEMO	Responses to the 2500 series CRs provides the datastream type for each suffix the new datasteam type code 'N' will be a value in this field when configured in MSATS. For Datastream Type options please refer to the Table 12 in Standing Data For MSATS v5.0.	20/05/2020
21.4.4	AEMO to confirm if r39 applies to B2B messages where it contains standing data details (i.e. TNI2 in a MeterData MissingNotification or MeterDataVerifyRequest)	AEMO	The above nominated transactions include NMI standing data and will display the TNI2 code when applied to a Cross Boundary connection point	20/05/2020
21.4.5	AEMO to confirm any plans for regression testing with participants before the release of r39.	AEMO	The following dates indicate when the Schema will be available for participants to perform industry testing: <u>Staging environment</u> – Drop 3 01-Aug-2020 <u>Pre-Production</u> – 01-Feb-2021	20/05/2020
21.4.6	AEMO to provide a summary of market system	AEMO	Within this pack	20/05/2020

AEMO

AEMO can confirm that the MDM Procedure will be

include the report field MDPVersionDT for each

settlement day

updated to reflect changes to RM17, RM21 and RM27 to

Responsible Action update

Bv

20/05/2020

Program update

Graeme Windley



Program update and current activities



AEMO program

- Overall Amber, while the timelines are undergoing change and review.
- The AEMO Internal Metering Solution milestone "Build complete" will not complete by 30 June 2020.
- New Retail plan communicated to the PCF – <u>Retail Go Live now 9 March</u> 2021.
- The new Retail Go Live date does not compromise the date for Market Trial activities (non-withstanding the potential of a 12-month deferral).



Systems

- Staging environment deployments for Settlements & Dispatch completed 15 May 2021.
- Proposal for new
 Dispatch and Settlements
 system deployment dates
 discussed with the PCF on
 5 May 2021. No decision
 has been made yet.



Readiness

- Readiness Survey #2 completed by Industry. Consolidated report released 7 May 2021.
- Implementation scenario under proposed rule deferral underway to inform participant impact assessment.
- TFG held to clarify approach, timing and support requirements for key activities.



11/06/2020

Changes to be discussed

- There are several changes to the 5MS Program timeline under discussion:
- A. Changes to the Metering Solution Go-Live from 7-Dec-20 to 9-Mar-21
 - This is as a result of delays to the required internal systems build
- B. Proposed changes to Settlements and Dispatch go-lives
 - Under consideration as a risk mitigation measure as a consequence of the Metering Solution go-live date change
- C. Proposed 12 month deferral
 - AEMC published consultation paper on 14 May
 - Submissions due by 11 June
 - AEMC final determination 9 July



A. Changes to the Metering Solution Go-Live from 7-Dec-20 to 9-Mar-21

Current as at 28-04-2020

Current L1 Milestone

ID	Stream	Milestone	Planned Date	Expected Date	%	Comments
L1-M6	Systems	AEMO Internal Systems Development – Build Complete	30 June 2020	See below	70%	Dispatch and Settlement on time. Metering solution development likely not to be fully complete by 30 June.

Issues impacting the delivery of milestone L1-M6

- Increase in complexity of the solution (under-estimation of effort in some areas)
- Technology issues which have impacted on productivity
- Security
- COVID-19

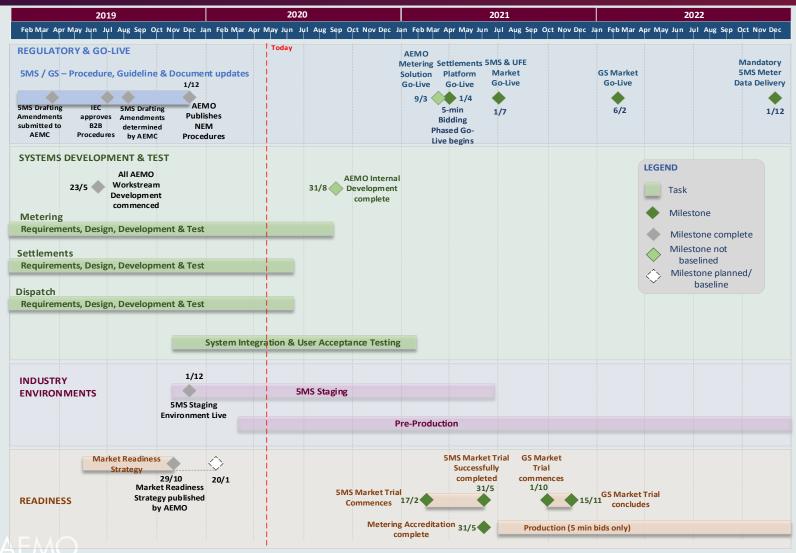
Mitigation & Consequence

- AEMO considered the approach of prioritising the functionality required for L1-19 AEMO Metering Solution Go-Live on 7 Dec 2020. However, it was determined that this approach would not return the program status to green.
- On this basis, AEMO has determined that the milestone L1-M6 should be rebaselined to 31 August 2020 and consequently, milestone L1-19 AEMO Metering Solution Go-Live should be rebaselined to 9 March 2021
- AEMO will discuss the impact of this on related milestones at the PCF on 5 May



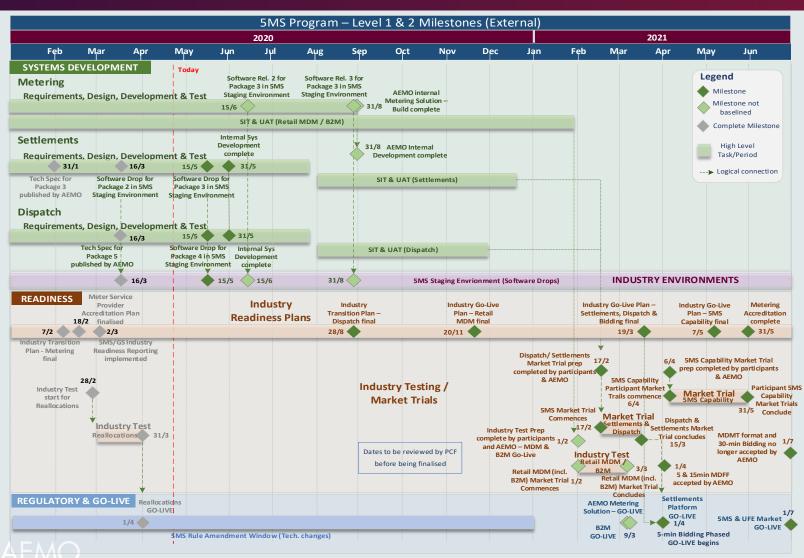
Current as at 28-04-2020

5MS & GS Program Timeline



5MS Program Timeline (Jan '20 to Jul '21) Level 1 and External Level 2 Milestones

Current as at 28-04-2020



Changes to Milestones

ID	Milestone	Target Date	Expected Date	Owner
L1-M6	AEMO Internal Systems Development – Build Complete	30-Jun-2020	31-Aug-2020	AEMO
L1-19	AEMO Metering Solution Go-Live	07-Dec-20	09-Mar-21	AEMO
L2-M7	AEMO internal metering solution – build complete (internal)	30-Jun-2020	31-Aug-2020	AEMO
L2-M8	Software Release 3 for Package 3 in 5MS Staging Environment	31-Jul-2020	31-Aug-2020	AEMO
L2-M11	Market Trial preparation completed by participants for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	Participants
L2-M12	Market Trial preparation completed by AEMO for MDM and B2M Go-Live	22-Oct-2020	01-Feb-2021	AEMO
L2-RE29	Retail MDM (incl. B2M) Market Trial Commences	22-Oct-2020	01-Feb-2021	AEMO
L2-RE30	Retail MDM (incl. B2M) Market Trial Concludes	19-Nov-2020	03-Mar-2021	AEMO
L2-M24	B2M Go-Live	17-Mar-2020	09-Mar-2021	AEMO
L2-M10	5 min and 15 min MDFF accepted by AEMO	01-Feb-2021	01-Apr-2021	AEMO



r39 Schema Discussion

Paul Lyttle



r39 Schema Discussion

- A single schema containing change for 5MS and Customer Switching will be released at MDM go live.
- Participants do not have to Update to r39 unless they are on the B2M superseded version r31.
- Each market participant will need to assess the impacts of updating or not updating the schema depending on their business requirements.
- The production go live slide can be used as a guide to assist in business decisions (slide 17 of the Schema Focus Group meeting pack)
- Meeting pack will be available on the <u>SWG webpage</u>.



Day 1 Requirements: AEMO Systems Implementation

AEMO Stream Leads / Business Analysts



Dispatch Production Deployment

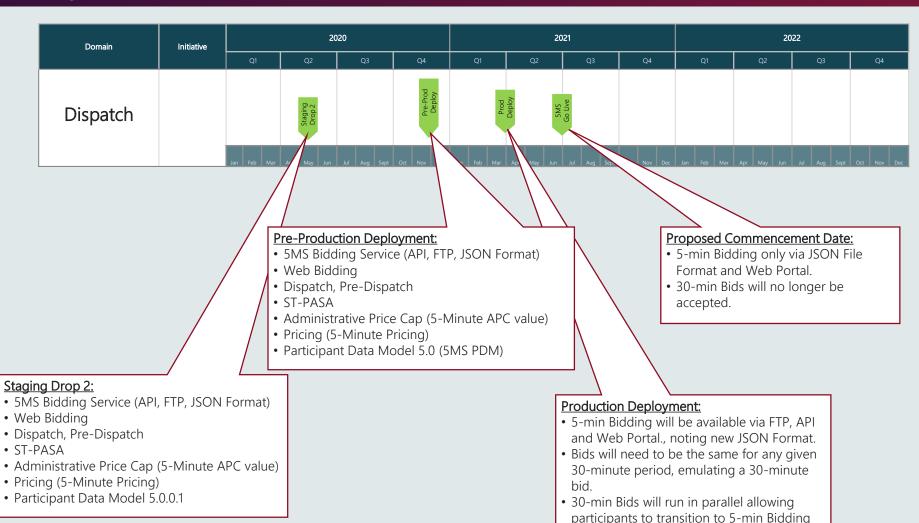
- Database (13-May-2020): 30-min bids are replicated to 5-min tables internally but continue to be published to 30-min tables in the data model.
- 5-min Dispatch (29-Nov 2020): Once all current and future 30-min bids are replicated, Dispatch engine starts looking at 5-min tables.
- 5-min Bidding Enablement, Day 1 (01-Apr-2021) Start of 'Transition Period': Participants can submit 5-min bids.
 - Both 30 and 5-min bids go to submission (BidOfferFileTrk) and bid (BidDayOffer) tables. (TransactionID is null for 30-min bids).
 - New 5-min period table (BidOfferFileTrk) holds 5-min bids
 - 30-min period data continues to be stored in BidPerOffer

Mandatory Changes (01-Apr-2021)

• If either of Dispatch or Settlements new system deployment date proposals are agreed, potential for the data model to be split. AEMO to confirm.



Dispatch – Current Timetable





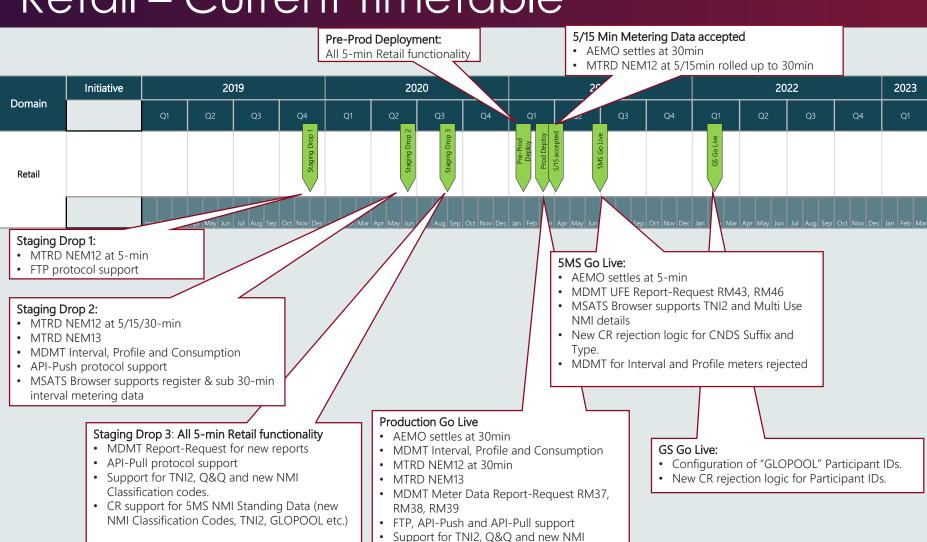
before the commencement date.

Retail Production Deployment

Particip	ant Market System Capability	MDP/MC	LNSP	МРВ/МС	FRMP/LR
	Basic for Mkt Settlements	Mandatory			
	30min for Mkt Settlements (Interval and Profile meters)	Mandatory			
	Basic for Mkt Settlements 30min for Mkt Settlements (Interval and Profile meters) Mandatory MTRD - MDFF NEM13 for Mkt Settlements Optional MTRD - MDFF NEM12 at 5min for Mkt Settlements Optional MTRD - MDFF NEM12 at 15min for Mkt Settlements Optional MTRD - MDFF NEM12 at 30min for Mkt Settlements Optional 10MB file size for MTRD for Mkt Settlements Optional 10MB file size for MTRD for B2B Mkt Activities By Bilateral Agreeme Migrate Net to Register Datastreams Optional Create kVarh Datastreams Optional MDMT Meter Data Report-Request RM37, RM38, RM39 Report X of Y message functionality Optional Submit CRs with new standing data codes (Datastream Type, NMI Class Code, MITC) Submit CRs with new standing data element (TNI2) Transition window and responsibility Metering Transitio				
Meter Data	MTRD - MDFF NEM12 at 5min for Mkt Settlements	Optional			
Meter Data Notifications M CNDS Data Streams Reports M Reports M Standing Data and CRs M Standing Data and CRs	MTRD - MDFF NEM12 at 15min for Mkt Settlements	Optional			
	MTRD - MDFF NEM12 at 30min for Mkt Settlements	Optional			
	10MB file size for MTRD for Mkt Settlements	Optional			
	10MB file size for MTRD for B2B Mkt Activities		By Bilateral Ag	reement Only	
CNDS Data Streams	Migrate Net to Register Datastreams	Optional			
CNDS Data Streams	Create kVarh Datastreams	Optional			
Reports	MDMT Meter Data Report-Request RM37, RM38, RM39	where MDFF is			
	Report X of Y message functionality	Optional ¹			
Message Protocols	API Message Exchange for CATS, NMID, MDMT		Opti	onal	
		Transition window and responsibilities defined in the 5MS			
_					
CRS	Submit CRs with new standing data element (TNI2) ¹		Wietering Ha	IIISIUUII FIAII	
	Accept NMID with new standing data element (TNI2) ¹				



Retail - Current Timetable



Classification codes.



Settlements Production Deployment

Production Deployment - Day 1

(01-Apr-2021)

- Settlement calculations continue to use and provide 30-min data.
- Prudential APIs are live.

Mandatory Changes

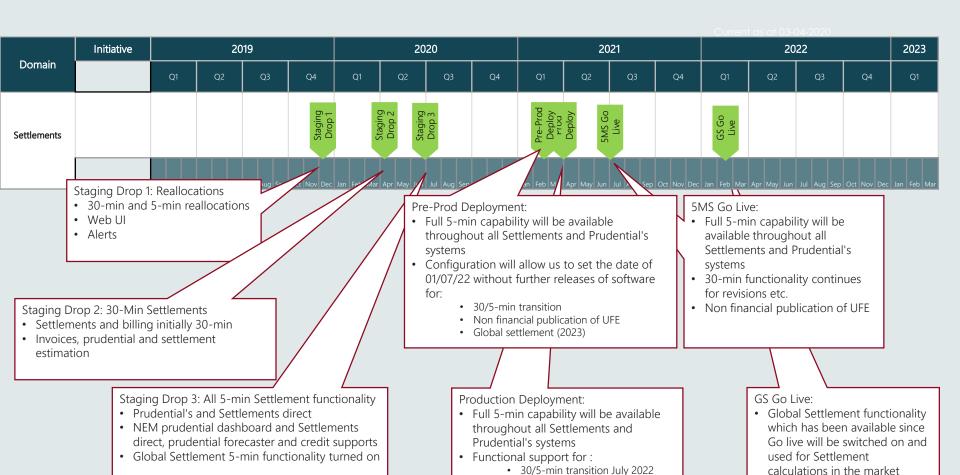
- New look prudential dashboard, forecast dashboard, credit support, Settlements direct.
- New-look invoices.
- RCTI format is changing (as per the Tech Spec)

AEMO requests Participants confirm if any of the above are automatically read.

• If either of Dispatch or Settlements new system deployment date proposals are agreed, potential for the data model to be split. AEMO to confirm.



Settlements – Current Timetable





Industry Testing Working Group update

Tui Grant



Industry testing working group - update

- The last ITWG was substituted for a SWG discussion on the rule change.
- The upcoming ITWG will focus on
 - Discuss Settlements for staging with a view to commence 5 minute invoicing and discuss options for prudential payments
 - Walkthrough of the remaining deliverables for staging
 - Discuss the testing window for the new go-live date for retail in Pre Production
 - Discuss the changes proposed to industry testing (in the RWG pack) and what this means for participant testing



Readiness Working Group update

Greg Minney



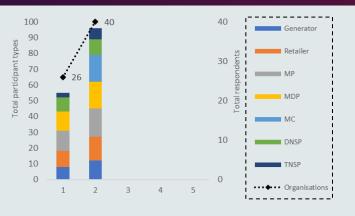
Workstream engagement

RWG #11 Conducted 14th May

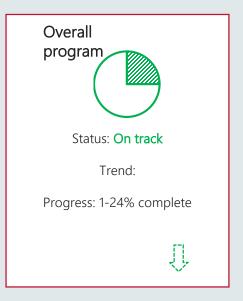
- Consideration of Transition, Participant Testing and Metering Transition approaches to incorporate:
 - MDM go-live of 9th March
 - Potential Settlement platform deployment Feb 2021
 - Potential 5MS bidding platform deployment Nov 2020
- Consideration of Transition, Participant Testing and Metering Transition approaches under 12 month deferral scenario
 - AEMO internal program continues to its current milestones i.e. staged platform deployments to support current 5MS timeframes, including new MDM deployment date.
 - Participants should be provided with implementation flexibility where possible (5MS/GS Transition and go-live strategy principle) i.e. transition and testing scenarios should support participants' abilities to implement their programs with or without a deferral.
- Feedback from RWG to be discussed at next PCF



Industry Readiness Reporting



- Increased response rate from participants to 2nd round of readiness reporting
- Specific questions regarding response to COVID-19
- Summary and overall report provided to RWG and PCF reps



- Overall industry progress and status remains at 1-25% and on-track, consistent with round 1. The downtrend reflects the number of response categories where subsets of participants are indicating emergent risks, issues and heightened uncertainty in comparison to the previous survey.
- Program delivery of 5MS and GS has progressed across the industry, with 27% of the industry now at 25-49% progress or more, compared to 8% two months ago in the previous round of reporting. Majority are on track, with 5 respondents noting that their program is at risk or late.
- An emerging theme among responses highlights the uncertainty created because of the rule change proposal, and varying degrees of impact from COVID-19. At the time of publication, AEMO notes that AEMC is still finalising rule change timelines, and that various 5MS working groups have are currently considering the potential impacts of the rule change.



5MS/GS Procedures update

Simon Tu



5MS/GS-related procedure change log

Procedure issue	Status
MDFF file size and transaction limit in file	 Initial feedback to first and second stage B2B procedures consultation showed majority support for: MDFF file size 10MB MDFF 1,000 transaction limit in file non-contestable unmetered loads – use of existing B2B transactions for this family of NMIs Third round of consultation occurring for other matters, however above matters are confirmed.
Proposed procedural change to MDFF quality flag (N flag)	AEMO has submitted an ICF for ERCF consideration at March meeting (Thu 12 March). No objections presented at ERCF. Next steps: AEMO to compile a 'change information pack' for industry consultation for 15 May ERCF.
Proposal for RWD[?]	Meter read type code. Consultation on issues paper closed Tue 31 March. Majority of responses support the concept to identify interval length. Suggestions have been received on what format this should be provided in to MSATS. Draft determination will be published Thu 14 May 20.
Removal of end user details from inventory table	AEMO will progress consultation. Dates TBC, likely to begin Aug/Sep. Follow up with ERCF rep for details.
TNI 2 for cross-boundary meters	While Participants don't have to populate the TNI2 field (AEMO will, similarly to NSP2), they will have to ensure that their systems can receive TNI2. Part of MSATS Standing Data Review. Consultation on issues paper closed Tue 31 March. Majority of responses support AEMO's proposal. Draft determination due Thu 14 May 20.
Obligation for MC to provide updated or substitution data in the cases of theft or fraud	Original ICF lodged by AGL. Discussed at ERCF March meeting. Relates to UFE calculation. Next steps: distribution of amended ICF and supporting questionnaire.
Removal of register ID = suffix requirement	ICF lodged by AusNet to ERCF for its consideration at next meeting on Fri 15 May 20.
NCONUML objections to CR 2000/2001	ICF to be lodged by Origin. Gap in procedures to be filled. ICF proposes that if an LNSP sets up a new NCONUML NMI and assigns it to a contestable MC, then the contestable MC can object to it as the MC is always the initial MC.

Metering procedures update

Electricity Retail Consultative Forum - next meeting Fri 15 May 20

- 5MS/GS ICFs
- Update on MSATS standing data review
- ADL discussions ongoing
- https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retailmeetings/Electricity-Retail-Consultative-Forum

B2B Working Group - recent meeting Tue 5 May 20

- Second draft stage (3rd round) of release v3.4 of B2B procedures consultation. All initial response agree with proposals for:
 - MDFF file size 10MB
 - MDFF 1,000 transaction limit in file
 - non-contestable unmetered loads use of existing B2B transactions for this family of NMIs
- https://aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/Retail-meetings/B2B-Working-Group



Forward meeting plan

Graeme Windley



Forward Meeting Agenda

SWG #23 Agenda – 17 June 2020

• Incl Retail Staging deployment – 2nd Drop

To add items to the agenda, please contact us at 5MS@aemo.com.au



Upcoming meetings

https://aemo.co m.au/initiatives/ majorprograms/nemfive-minutesettlementprogram-andglobalsettlement

Current as 15 May 2020



Su Mo Tu We Th Fr Sa 26 27 28 29 30 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

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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	10	11

JUNE

					Jl	JLY
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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

Focus Groups
Dispatch
Metering
Settlements
Transition
Reconciliation
Contingency
Industry Testing

Other
Information sessions
Q&A session
National Public Holiday
State Public Holiday*
*Polovant state has been

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

Retail stream update

Jim Agelopoulos



Systems Workstream - Metering

Current as at 15-05-2020

5 MINUTE SETTLEMENT	TIMING									
SYSTEMS TRACKING	Internal HLIA	Focus/Group	SWG Engagement	External HLIA	Draft Tech Spec	Final Tech Spec	User Guides	5MS Staging	Preprod	Production
METERING										
		P/	ACKAGE 1 - Me	etering Data	a & Metrolog	3y				
MDFF • MDFF Specification NEM12 NEM13 v20	Aug-18	Oct-18	Oct-18	Nov-18	Jan-19	Apr-19	-	1-Dec-19	01-Feb-21	09-Mar-21
		,	PACKAGI	E 2 - MSATS	& SLPs					
Transition • MSATS Technical Specification	Aug-18	Sep-18	Aug-18	Nov-18	31-May-19	30-Sep-19	-	-	-	-
Meter Data - MDFF and MDMF 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	01-Feb-21	09-Mar-21
			PACKAGE	3 – Miscel	laneous					
B2M via API • MSATS Technical Specification	Oct-18	-	Apr-19	9-May-19	31-May-19	30-Sep-19	31-Jul-20	N/A	01-Feb-21	09-Mar-21
MSATS Browser (LVI) changes MSATS Technical Specification	Aug-18	-	May-19	9-May-19	28-Jun-19	30-Sep-19	31-Jul-20	15-Jun-20	01-Feb-21	09-Mar-21
MSATS Report changes 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-Aug-20	01-Feb-21	09-Mar-21



Level 2 Milestones – Metering

Current as at 15-05-2020

Domain	Initiative	2019 4				2020 🙇					2021			
		Q1	Q2	Q3	L2-N	Q4	Q1	Q2	Q: <mark>7-</mark>	Q4	Q1	Q2	Q3	Q4
Metering			L2-M2	- TAI -	L2-M3	L2-M5		L2-M6	L2-M7					
	'	Jan Feb Mar	Apr May Ju	n Jul Aug S	ept O	ct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Se	pt Oct Nov D	ec Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec



Key Milestones (Program)								
ID	Milestone	Target Date	Expected Date	Status				
L2-M1	AEMO internal metering solution – solution design complete (internal)	31-May-2019	17-Jun-2019	Complete				
L2-M2	Final technical specifications for Package 1 published by AEMO	30-Jun-2019	30-Apr-2019	Complete				
L2-M3	Final technical specifications for Package 2 published by AEMO	30-Sep-2019	30-Sep-2019	Complete				
L2-M4	Final technical specifications for Package 3 published by AEMO	30-Sep-2019	30-Sep-2019	Complete				
L2-M5	Software Release 1 for Packages 1 & 2 in 5MS Staging Environment	01-Dec-2019	01-Dec-2019	Complete				
L2-M6	Software Release 2 for Package 3 in 5MS Staging Environment	15-Jun-2020	15-Jun-2020	On Track				
L2-M7	AEMO internal metering solution – build complete (internal)	31-Aug-2020	31-Aug-2020					
L2-M8	Software Release 3 for Package 3 in 5MS Staging Environment	31-Aug-2020	31-Aug-2020					



Dispatch stream update

Ian Devaney



Systems Workstream – Dispatch & Operations

Current as at 15-05-2020

		PACKAGE 1 -	Bidding FTP	and API							
Aug-18	Oct-18	Aug-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Apr-21		
Aug-18	-	Sep-18	Mar-19	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Apr-21		
Aug-18	-	Sep-18	Nov-18	Dec-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Apr-21		
PACKAGE 2 - Bidding Web UI											
Aug-18	Nov-18	Dec-18	Jan-19	Mar-19	31-Jul-19	16-Dec-19	29-Nov-19	Nov-20	Apr-21		
PACKAGE 3 - Dispatch, Pre-dispatch and PASA											
Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Apr-21		
Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	-	29-Nov-19	Nov-20	Apr-21		
Nov-18	Oct-18	Nov-18	TBC	TBC	TBC	-	TBC	Nov-20	Apr-21		
Aug-18	-	Oct-18	Nov-18	Oct-18	2-Apr-19	31-Oct-19	29-Nov-19	Nov-20	Apr-21		
ST and PD PASA Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 Apr-21 PACKAGE 4 - Pricing and Miscellaneous											
Aug-18	-	Feb-19	Nov-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	Apr-21		
Aug-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	Apr-21		
Sep-18	-	Feb-19	Dec-18	Mar-19	31-Jul-19	-	15-May-20	Nov-20	Apr-21		
Sep-18	-	Feb-19	Dec-18	Jun-19	31-Jul-19	-	15-May-20	Nov-20	Apr-21		
Oct-18	-	-	-	-	-	-	-	-	-		
PACKAGE 5 - Full Data Model											
Sep-18	Ongoing	Ongoing	Apr-19	Ongoing	31-Jan-20	16-Mar-20	29-Nov-19	Nov-20	Apr-21		
5 MINUTE SETTLEMENT TIMING											
	Aug-18 Sep-18 Sep-18 Oct-18	Aug-18 Oct-18 Aug-18 - Aug-18 - Aug-18 Nov-18 PACKA Aug-18 - Aug-18 - Nov-18 Oct-18 Aug-18 - Aug-18 - Aug-18 - Sep-18 - Sep-18 - Oct-18 -	Aug-18 Oct-18 Aug-18 Aug-18 Aug-18 - Sep-18 Aug-18 - Sep-18 Aug-18	Aug-18 Oct-18 Aug-18 Nov-18 Aug-18 - Sep-18 Mar-19 Aug-18 - Sep-18 Nov-18 PACKAGE 2 - Bidding W Aug-18 Nov-18 Dec-18 Jan-19 PACKAGE 3 - Dispatch, Pre-dispatch, Pre-dis	Aug-18 - Sep-18 Mar-19 Dec-18 Aug-18 - Sep-18 Nov-18 Dec-18 PACKAGE 2 - Bidding Web UI Aug-18 Nov-18 Dec-18 Jan-19 Mar-19 PACKAGE 3 - Dispatch, Pre-dispatch and PA Aug-18 - Oct-18 Nov-18 Oct-18 Aug-18 - Oct-18 Nov-18 Oct-18 Nov-18 Oct-18 Nov-18 TBC TBC Aug-18 - Oct-18 Nov-18 Oct-18 PACKAGE 4 - Pricing and Miscellaneous Aug-18 - Feb-19 Nov-18 Mar-19 Sep-18 - Feb-19 Dec-18 Mar-19 Sep-18 - Feb-19 Dec-18 Jun-19 Oct-18 PACKAGE 5 - Full Data Model Sep-18 Ongoing Ongoing Apr-19 Ongoing	Aug-18 Oct-18 Aug-18 Nov-18 Dec-18 2-Apr-19 Aug-18 - Sep-18 Mar-19 Dec-18 2-Apr-19 Aug-18 - Sep-18 Nov-18 Dec-18 2-Apr-19 PACKAGE 2 - Bidding Web UI Aug-18 Nov-18 Dec-18 Jan-19 Mar-19 31-Jul-19 PACKAGE 3 - Dispatch, Pre-dispatch and PASA Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 Nov-18 Oct-18 Nov-18 TBC TBC TBC Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 Nov-18 Oct-18 Nov-18 Oct-18 2-Apr-19 PACKAGE 4 - Pricing and Miscellaneous Aug-18 - Feb-19 Nov-18 Mar-19 31-Jul-19 Aug-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 Sep-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 Sep-18 - Feb-19 Dec-18 Jun-19 31-Jul-19 Oct-18 PACKAGE 5 - Full Data Model Sep-18 Ongoing Ongoing Apr-19 Ongoing 31-Jan-20	Aug-18 Oct-18 Aug-18 Nov-18 Dec-18 2-Apr-19 31-Oct-19 Aug-18 - Sep-18 Mar-19 Dec-18 2-Apr-19 31-Oct-19 PACKAGE 2 - Bidding Web UI Aug-18 Nov-18 Dec-18 Jan-19 Mar-19 31-Jul-19 16-Dec-19 PACKAGE 3 - Dispatch, Pre-dispatch and PASA Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 - Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 - Nov-18 Oct-18 Nov-18 Oct-18 2-Apr-19 - Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 31-Oct-19 PACKAGE 4 - Pricing and Miscellaneous Aug-18 - Feb-19 Nov-18 Mar-19 31-Jul-19 - Aug-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 - Aug-18 - Feb-19 Dec-18 Mar-19 31-Jul-19	Aug-18	Aug-18 Oct-18 Aug-18 Nov-18 Dec-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 Aug-18 - Sep-18 Nov-18 Dec-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 Aug-18 - Sep-18 Nov-18 Dec-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 PACKAGE 2 - Bidding Web UI Aug-18 Nov-18 Dec-18 Jan-19 Mar-19 31-Jul-19 16-Dec-19 29-Nov-19 Nov-20 PACKAGE 3 - Dispatch, Pre-dispatch and PASA Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 - 29-Nov-19 Nov-20 Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 - 29-Nov-19 Nov-20 Nov-18 Oct-18 Nov-18 Oct-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 Aug-18 - Oct-18 Nov-18 Oct-18 2-Apr-19 31-Oct-19 29-Nov-19 Nov-20 Aug-18 - Feb-19 Nov-18 Mar-19 31-Jul-19 - 15-May-20 Nov-20 Aug-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 - 15-May-20 Nov-20 Sep-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 - 15-May-20 Nov-20 Sep-18 - Feb-19 Dec-18 Mar-19 31-Jul-19 - 15-May-20 Nov-20 Oct-18 -		



Level 2 Milestones - Dispatch

Current as at 15-05-2020

Domain	Initiative	2019			2020			2021					
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Dispatch			L2-D1	L2-D2 L2-D12	L2-D3	L2-D13	L2-D5 L2-D4						
		Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec



Key Milestones (Program)									
ID	Milestone	Target Date	Expected Date	Status					
L2-D1	Final technical specifications for Package 1 published by AEMO	2-Apr-2019	2-Apr-2019	Complete					
L2-D2	Final technical specifications for Package 2 published by AEMO	31-Jul-2019	31-Jul-2019	Complete					
L2D12	Final technical specifications for Package 4 published by AEMO	31-Jul-2019	31-Jul-2019	Complete					
L2-D3	Software drop for Packages 1,2 & 3 in 5MS Staging Environment	29-Nov-2019	29-Nov-2019	Complete					
L2-D13	Final technical specifications for Package 5 published by AEMO	31-Jan-2020	16-Mar-2020	Complete					
L2-D5	Software drop for Package 4 in 5MS Staging Environment	15-May-2020	15-May-2020	In Progress					
L2-D4	Development completed (internal)	31-May-2020	31-May-2020						



11/06/2020

Dispatch Staging Release Drop 2 -15th of May 2020

Ian Devaney / Tui Grant



Dispatch – Functionality in Staging Release 2

Pricing DDL

Trading Price

- Calculation on Trading Price base off the 5-min dispatch price and no longer referencing 30-min trading interval.
- NEM Trading Reports
 - TradingInterconnect
 - TradingPrice
 - TradingRegionSum (to be stopped as part of 5MS, however, this is pending ETA 31st of May)
 - TradingLoad (to be stopped as part of 5MS, however, this is pending ETA 31st of May)
 - Average30 (Pending, ETA 31st of May)
 - Trading Price during price revision (Pending, ETA 31st of May)

Rolling Sum Price

- From summation of 336 30-min intervals, it will now move to a summation of 2016 5-min intervals.
- Rolling Sum Price during price revision (Pending, ETA 31st of May)

Market Suspension Pricing

This is a pending release. (ETA 31st of May)



Dispatch – Functionality in Staging Release 2

APC Manager

- Monitors the Rolling Sum Price (RSP) against the Cumulative Price Threshold (CPT) by region and creates Administered Pricing events by region.
- Creates associated Market Notices records with event starts/ends and extensions
- The actual Market Notices are generated by the GeneralNotice Service.

Negative Residue Manager

No action required for Negative Residue Manager, this will remain the same.



Data Model Impacts

Sangeeta Pai



Settlements / Dispatch Data Model Impacts

- There are no major changes to the Data Model with this release.
- We have added a timestamp changes to below 2 tables:
 - DISPATCH_MNSPBIDTRK OFFEREFFECTIVEDATE
 - PREDISPATCH_MNSPBIDTRK OFFERDATE
- Below tables, PERIODID comments are updated
 - METER DATA.METERDATA AGGREGATE READS
 - METER DATA.METERDATA INDIVIDUAL READS
 - METER_DATA.METERDATA_INTERCONNECTOR
 - SETTLEMENT_CONFIG.REALLOCATIONINTERVAL
 - SETTLEMENT_DATA.SET_ANCILLARY_SUMMARY
 - SETTLEMENT_DATA.SETFCASREGIONRECOVERY
- In this drop we are not releasing a new version since the above changes are related to Oracle scripts only
- We will update these changes in the existing patch and the latest v5.0.0.1 release
- For the existing participants who are on v5.0.0.1 release, we will provide a script which they can apply to their staging database.



Settlements stream update

Mark Hillaby



Systems Workstream - Settlements

Current as at 15-05-2020

5 MINUTE SETTLEMENT					TI	MING				
SYSTEMS TRACKING	Internal	Focus/Group	SWG	External	Draft	Final	User	5MS Staging	Preprod	Production
	HLIA		Engagement	HLIA	Tech Spec	Tech Spec	Guides			
SETTLEMENTS										
PACKAGE 1 - Reallocations										
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
			PACKAGE 2 - Se	ettlements a	and Billing					
Settlements	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Feb-21	Apr-21
Billing	Oct-18	Nov-18	Dec-18	Mar-19	30-Aug-19	20 Dec 19	-	16 Mar 20	Feb-21	Apr-21
		P/	ACKAGE 3 - Pru	dentials and	Estimation					
Prudentials	Sep-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	15 May 20	15 May 20	Feb-21	Apr-21
Estimation	Oct-18	Nov-18	Dec-18	Mar-19	31-Oct-19	31 Jan 20	-	15 May 20	Feb-21	Apr-21
Full Data Model	Refer DISPATCH									



Level 2 Milestones – Settlements

Current as at 15-05-2020

Domain	Initiative	2019			2020				2021				
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4
Settlements					L2-S1 L2-S2 L2-S3	L2-S4 L2-S6	L2-57 L2-S5						
		Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec	Jan Feb Mar	Apr May Jun	Jul Aug Sept	Oct Nov Dec



Key Milestones (Program)							
ID	Milestone	Target Date	Expected Date	Status			
L2-S1	Final technical specifications for Package 1 published by AEMO	15-Oct-2019	15-Oct-2019	Complete			
L2-S2	Software drop for Package 1	01-Nov-2019	01-Nov-2019	Complete			
L2-S3	Final technical specifications for Package 2 published by AEMO	15-Dec-2019	16-Dec-2019	Complete			
L2-S4	Final technical specifications for Package 3 published by AEMO	31-Jan-2020	31-Jan-2020	Complete			
L2-S6	Software drop for Package 2 in 5MS Staging Environment	16-Mar-2020	16-Mar-2020	Complete			
L2-S7	Software drop for Package 3 in 5MS Staging Environment	15-May-2020	15-May-2020	In Progress			
L2-S5	Development completed (internal)	31-May-2020	31-May-2020	On track			



Settlements Staging Release Drop 3 May 2020

Mark Hillaby / Tui Grant



Staging Environment Update

- Settlements Package 3 was deployed in the 5MS Staging Environment 16 March 2020. So far:
 - Week 1: 16th March to 20th March 30 minute Prelim 2019Wk24 Completed
 - Week 2: 23rd March to 27th March 30 minute Finals 2019Wk25 and 2019Wk24 Completed
 - Week 3: 30th March to 3rd April 30 minute Revision 1 2019Wk25- Completed
 - Week 4: 6th April to 10th April 30 minute Revision 2 2019WK16- Completed
 - Produced Tax Invoices, RCTI's, Statements, and Reconciliation (SR, etc) reports for both runs Completed
 - Produced Data Interchange files for both runs Completed
 - Identified an integration issue between Settlements Direct and Invoicing Resolved
 - The invoicing engine has been updated and a new version tested and released into the Staging Environment
 - Some ongoing work is still required on Settlements Direct to finalise the issue
 - Until this issue is finalised, SR reports will not be available on the Settlements Direct portal without manual intervention
 - All other reports (Tax Invoice etc) are available on the Settlements Direct portal
- Settlements Direct Dashboard, Prudential Dashboard, Prudential Forecaster Dashboard and Credit Support Assessment Tool have been released as planned on the 15 May and are available for use.
- Based on feedback at the next ITWG we will proceed with the transition and 5-minute invoices is expected to commence in the first week of June. IWTG will also discuss options for the use of prudential data with a view to implement changes if required in early June.
- Post the completion of 5-minute invoices a review will then be undertaken with participants and a plan for global settlement examples will be published.





Appendix 1: Staging – Further Details

Jim Agelopoulos



Retail – Functionality in Staging Release 2 15 June 2020

Objectives

- Allow all Participants to confirm connectivity of their test environments with the AEMO 5MS Staging Environment.
- Allow MDPs to confirm that MTRD CSV MDFF created by their systems for NEM
 Settlements and TUOS billing are able to pass new AEMO validations for NEM13 and
 NEM12 (30 min, 15 min and 5 min).
- Allow MDPs to confirm that MDMT CSV MDMF created by their systems for NEM Settlements are able to pass AEMO validations for Basic, Interval and Profile meters.
- Allow MDPs to validate FTP or API message exchange with the NEMMCO participant ID for MTRD and MDMT MeterDataNotifications.
- Allow Participants to confirm AEMO ingested meter reads



Retail – Functionality in Staging Release 2

Scope of functionality

Supported Functions	Staging R	Release 1	Stagin	g Release 2
Supported Functions	MTRD	MDMT	MTRD	MDMT
Meter Types	NEM12	No	NEM12 and NEM13	Interval, Profile and Consumption
FTP Message Exchange	Yes	No	Yes	Yes
API Push Message Exchange	No	No	Yes	Yes
API Pull Message Exchange	No	No	No	No
View AEMO Ingested Meter Reads	No	No	MSATS Browser > Metering Data screen	MSATS Browser > Metering Data screen
Support for Transaction Bundling	No	No	Yes	Yes
aseXML schema support	Current only	No	Current and Superseeded	Current and Superseeded



