



5MS & GS Readiness Working Group #27 (incl. Systems Working Group)

Tuesday, 7 September 2021

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AEMO

Competition Law Meeting Protocol

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Participants in AEMO discussions **must**:

1. Ensure that discussions are limited to the matters contemplated by the agenda for the discussion
2. Make independent and unilateral decisions about their commercial positions and approach in relation to the matters under discussion with AEMO
3. 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:

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

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Agenda

Greg Minney

Agenda

#	Time	Topic	Presenter
1	10:00 – 10:05	Welcome and Agenda	Greg Minney
2	10:05 - 10:15	Minutes/Actions	Anne-Marie McCague
3	10:15 – 10:20	5MS Program Update	Greg Minney & Graeme Windley
4	10:20 – 10:30	5MS Start Notice	Greg Minney
5	10:30 – 10:50	Market Trial Update	Tui Grant
6	10:50 – 11:05	5MS Industry Go-Live Plan	Greg Minney
7	11:05 – 11:20	Tranche 1 Metering Update	Blaine Miner
8	11:20 – 11:35	Retail Update - 1 October impacts	Jim Agelopoulos, Simon Tu, Paul Lyttle
9	11:35 – 11:50	Settlements Update – 1 October Impacts	Ian Devaney
10	11:50 – 12:05	Bidding Update – 1 October Impacts	Ian Devaney
11	12:05 12:10	Participant Support Arrangements	Anne-Marie McCague
12	12:10 -	Forward Plan and Other Business	Greg Minney
13	13:00	Meeting Close	Greg Minney



Minutes & Actions

Anne-Marie McCague

RWG Actions

No.	Status	Action	Comment
26.4.1	Closed	AEMO to look into rescheduling an Executive Forum, as previous one was cancelled.	Discussion at exec level with participant that requested this meeting took place.
26.5.1	Closed	MC/MPB/ MDP to consider and develop contingency plans for metering installation and metering data delivery as required	Update to be provided during this session
26.5.2	Closed	AEMO to summarise and circulate to RWG updates on progress on meter installation and reconfiguration each week	Weekly process in place
26.6.1	Closed	AEMO to consider how to get the right balance when communicating Customer Switching information at 5MS meetings.	Customer Switching have established a Q&A session every two weeks to provide industry updates. Customer Switching rep attends 5MS Market Trial session twice a week to take questions.
26.11.1	Closed	AEMO to respond to participants feedback directly and include why a suggestion may not have been implemented.	Summary actions on feedback have been included in this pack.

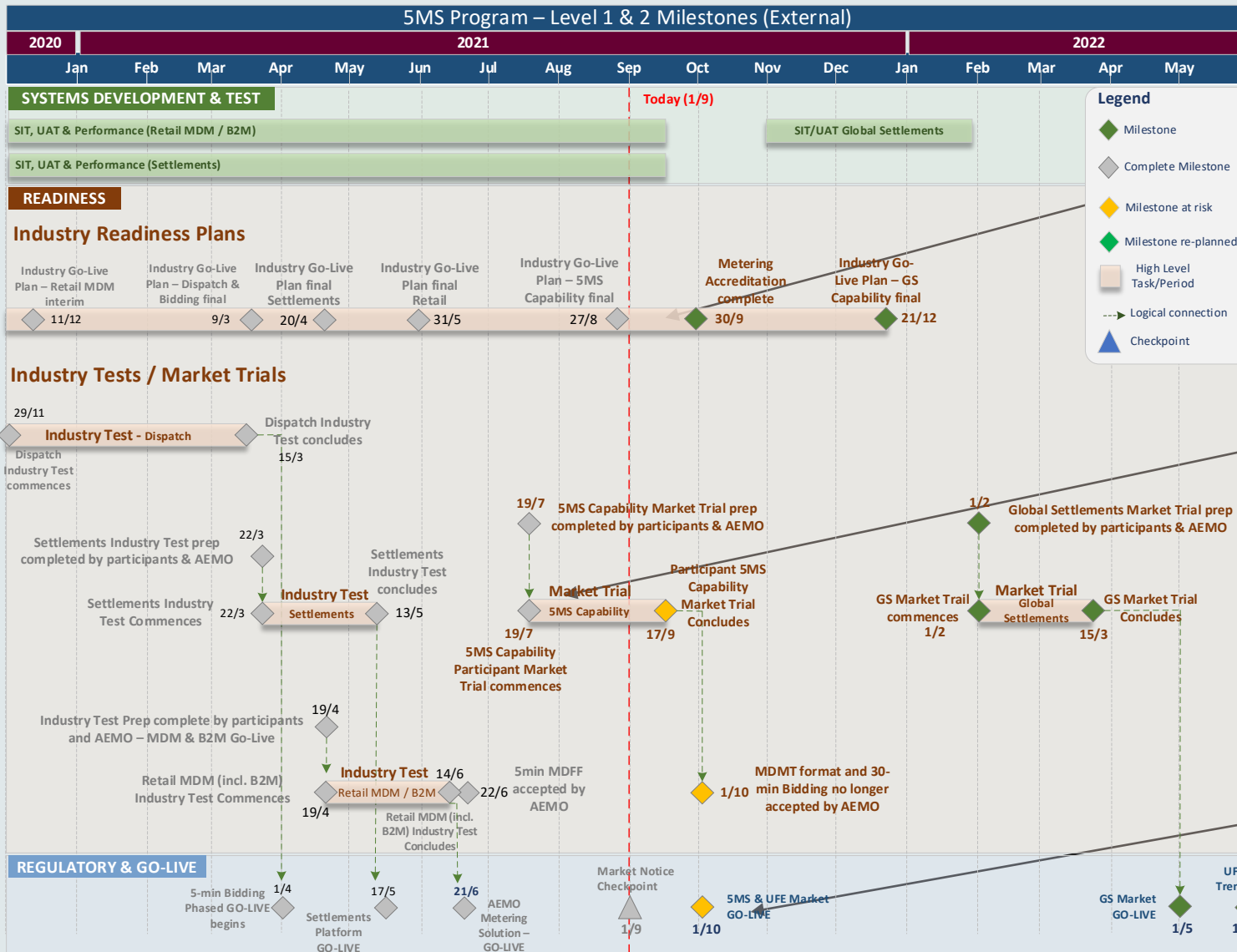


5MS Program Update

Greg Minney & Graeme Windley

5MS Program Timeline Readiness and Go-Live

Current as at 22-07-2021



Industry Go-Live Plan has been circulated and will be discussed during this session.

Overall Market Trial status is Amber and “improving”. Data and RM report issues have been remediated. Market Trial has been extended to 17-Sep to include additional settlement runs and intervention pricing.

5MS start notice has been circulated informing participants of AEMO’s advice to proceed with 1 October. Risk management through mitigations and contingencies is in place.



5MS Start Notice – Executive Forum Debrief

Greg Minney

5MS start notice issued

- 5MS start notice **issued on 1 September**
- On the basis of the 5MS readiness and risk assessment, AEMO concluded that the **NEM is ready to operate in accordance with the Five-Minute Settlement rule (including Global Settlement soft-start)** as scheduled on 1 October 2021.
- **Participants should prepare** for the 5MS Market Start on 1 October 2021 accordingly.
- The 5MS start notice was developed through discussion with PCF and Executive Forum (EF).

Next steps:

- AEMC will publish Final Determination to confirm 1 October as commencement date.



Essential Capability Dashboard

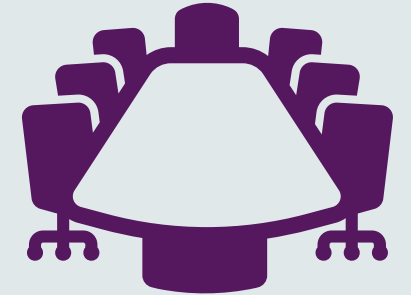
On track	On track for commencement date
Risk 1 – Risk to major milestones or deliveries	Remediation or contingency activation required to ensure on track delivery for Rule Commencement
Risk 2 – Risk to rule commencement	Cannot be addressed with available contingencies to be on track for commencement date

Responsible Participant	Essential Criteria	Status	Comments
	Generators and MNSPs are able to submit 5-min offers	On-track	<ul style="list-style-type: none"> Criteria adequately met. Evidence provided through Participant Readiness Reporting, observations through Market Trial and observations of Transition Bidding. Contingency plan exists through web bidding interface.
MP, MC, MDP	All essential meters* are able to produce and store and deliver 5-min data	At-risk	<ul style="list-style-type: none"> No show-stoppers exist and criteria is adequately met. Risks exist. Contingency plans are necessary and have been, or are being, established. Monitoring will continue throughout September and activation of contingency plans will be discussed with MSPs where necessary. Evidence provided through Participant Readiness Reporting, Metering Transition Plan Reporting, observations of production operation and explicit readiness confirmation from MSPs.
AEMO	The 5-minute bidding and dispatch solution, including the web bidding interface is deployed	On-track	<ul style="list-style-type: none"> Criteria adequately met. Evidence provided through Production operation and Market Trial operation.
	The Metering Data Management (MDM) solution is deployed	At-Risk	<ul style="list-style-type: none"> No significant capability issues identified to date and no show-stoppers exist. No outstanding defects that have a material compliance or participant impact that cannot be remedied prior to 1 Oct. Criteria is adequately met. Risks exist. Risk management plan necessary. Evidence through Production operation and Market Trial critical business functions
	The 5-minute settlements solution is deployed	On-track	<ul style="list-style-type: none"> Criteria adequately met. Evidence provided through Production operation, Market Trial operation and independent certification
Readiness Assessment status		At-Risk	<p>Key Risks:</p> <ol style="list-style-type: none"> Metering Service Provider readiness AEMO readiness Participant readiness

Summary of key points discussed with PCF and EF

Metering Service Provider readiness

- An update on the status of essential meter capability was provided.
- It was noted that explicit confirmation on readiness and contingency plans received from (as at COB 27/8):
 - 8 Metering Providers out of 8 (5 already complete)
 - 5 Metering Data Providers out of 6, 1 noting medium risk
 - 4 MSPs will need to confirm contingency arrangements



AEMO Readiness

- AEMO essential capability has been demonstrated
- Noted that the running of settlements process for Market Trial has encountered issues with metering data quality and preparation. Defects have been identified and closed. Those still open (to be discussed) have a pre-go live resolution.
- Market Trial settlement runs will be extended to demonstrate smooth operation

Participant Readiness

- **100% of participants** report they are '**confident**' or '**very confident**' of being able to undertake core functions post 5MS rule commencement.
- Over **80% of respondents report** they have **contingencies** in place to address residual risks.
- Low level of test execution by participants through Market Trial, especially in the critical business functions was discussed as a risk
- AEMO recommended that market commencement is not delayed on the basis of some participants being not quite ready, given the confidence expressed by all participants and the existence of contingency plans.
- Since the Executive Forum, PractiTest reporting and test execution has increased – see next section.



Market Trial Update

Tui Grant

Overall Status as at 31 August 2021

[Click here for PractiTest Dashboard](#)

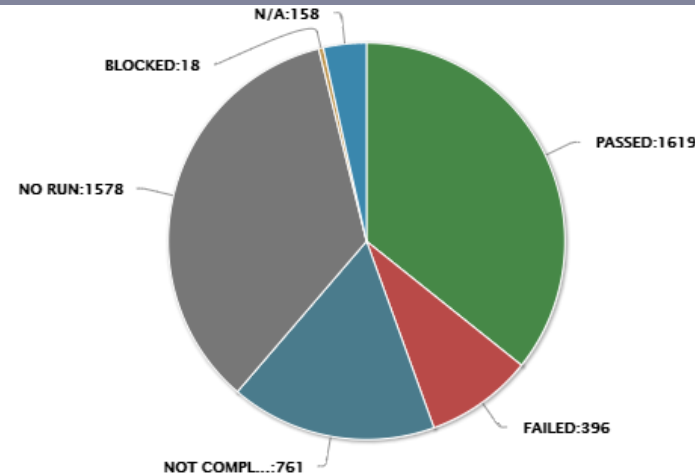
Overall RAG Status



Schedule is on track however open issues remain. Extension has been agreed with participants for further testing.

- 62% of total scenarios are either completed or in progress.
- Noted increase in test scenario execution and completion.
- Increase in PractiTest reporting has been observed after outreach by AEMO
- 5-min profiled bids continue to be submitted.
- Preliminary 5-min invoice delivered on 27 Aug, following resolution of RM distribution issue.
- PractiTest will be updated by AEMO to reflect extension schedule including intervention pricing
- 5MPD was deployed on 25 Aug
- Scheduled defect fix release on 31 Aug will close 6 defects.

Test Case Summary

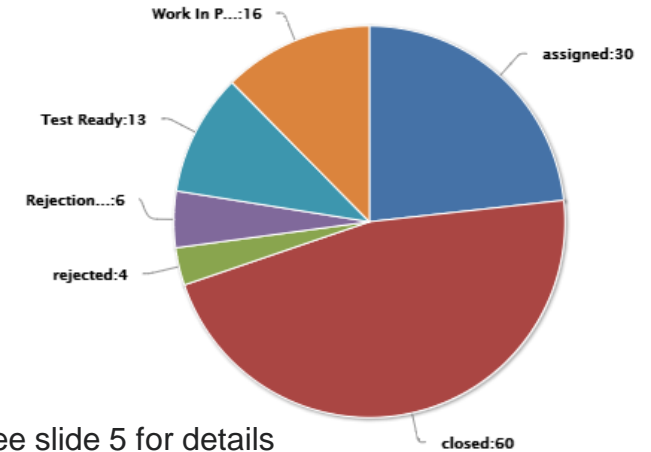


Key Risks – no change

Heightened risk of issues occurring early in the Market Trial as a result of:

- Testing of production defects in pre-prod
- Unexpected data/environment issues encountered following the refresh has required time to resolve
- Conflicting resource demands based on production support, Market Trial preparations and completion of testing including edge case

Defects Summary









See slide 5 for details

Key Issues – see slide 4

- No critical capability issues for market start have been identified
- Uses of estimated meter read data and participant input test data may impact data quality which will be reflected in Market Trial outcomes (Issue 5)
- Delays in distributing RM reports – fix has been deployed. AEMO has reissued reports (Issue 8)
- Participant test execution is lower than expected – participants are asked to ensure PractiTest is up to date to provide an accurate view of test progress. (Issue 9)

* TS unique # reference
to Market Trial Workbook

Key Market Trial Business Functions

Stream	Action	Owner	TS #*	Status	Comment
Bidding	Verify successful submission of 5-min bids with varying underlying values	Generators	BD02, BD03		Participants have been submitting 5-min varied bids. Open issues have resolution path.
Retail	Verify 5-min settlement (RM reporting)	Generators and Retailers	S02, S03		Fix has been applied for distribution issue and RM reports have been issued. AEMO will return to green after the next settlement run.
Retail	Verify RM reports for UFE	Generators and Retailers	S02, S03		UFE reports produced. Two issues have been raised and are under investigation.
Settlements	Verify transition invoice – prelim and final	AEMO to send and Gens and Retailers to receive	S08, S02, S03		The transition week preliminary invoice was produced and available for participant verification. Final transition invoice scheduled was produced 25 August.
Settlements	Verify prelim for full 5-min week	AEMO to send and Gens and Retailers to receive	S02		Issued on 27 August. Successful run.
Overall status					Overall status is Amber and improving. Settlement scenario execution has been extended to support participant process verification. Settlement runs for week 33 Final and week 35 Preliminary will be used to verify and return to Green.

Issues that may impact Market Trial (1 / 2)

No.	Title	Description	Status	Comment
1	End Date TNIs	Some end dated TNIs are incorrectly being included in the RM40 file. Impact: UFE volumes will be incorrectly reported for those TNIs in the settlements statements	Closed	Defect 5316 in Retail Issues Log.
2	Single day profile	PAE will only run for a minimum of 4 days Impact – the RM reports for the 5-min time period will overlap with the 30-min. Overlap won't be reflected in the settlement statements but will make it difficult to reconcile with the RM report	Closed	
3	5-minute pre-dispatch (5MPD) scenarios formulation error	The scenario offsets that were intended to be applied at the start of each 5MPD scenario have instead been applied cumulatively to each interval over the forecast horizon.	Closed	
4	Large Volume NMI's Missing Trading Days in RM27	Production issue INCO073410 is present in pre-prod. Participants using these reports to reconcile Settlement Statements are potentially affected.	Closed	Fix has been deployed into pre-prod on Thursday 29 July. Prod fix was deployed on 28 July. Defect 5349 in Retail Issues Log.
5	Missing 5-min generator meter read data	Unavailability of daily generator meter reads requires intervention on behalf of AEMO to ensure complete data.	Open	AEMO will continue to create generator data to ensure complete data for each settlement run. Participants may not be able to reconcile settlement data with the original B2B MDP meter read that was provided as it was necessary for AEMO to overwrite read to create acceptable overall data quality.
6	Performance issues due to estimated meter reads	Estimated meter reads are required for Market Trial testing as result of incomplete metering data provided by participants. The time taken to include estimated reads is increasing the overall time required for settlement runs which has caused delays to the release of invoices.	Closed	AEMO is continuing to focus on key Market Trial scenarios given the overlap with Issue 5.

Issues that may impact Market Trial (2/2)

No.	Title	Description	Status	Comment
7	Daily estimate reports not running	Daily estimates prudentials report not being available is impacting participant testing	Closed	Fix has been deployed.
8	Delays in distributing RM reports	Inconsistent and delayed delivery of RM reports impacting participant testing.	In progress	Fix has been deployed. RM reports have been re-issued. AEMO will observe another settlement run before closing.
9	Participant execution of test cases is lower than expected	Participant execution of test cases has been identified as low for this stage of Market Trial. The reasons for this are currently unknown which causing difficulty in assessing test progress and industry end-to-end readiness.	Ongoing	AEMO conducted an outreach to participants to increase PractiTest reporting. Participants are requested to ensure that PractiTest is updated regularly to provide an accurate representation of test progress.

Potential Defects Raised through Market Trial as at 7-Sep-21(1/1)

ID relates to PractiTest

ID	Description	Priority	Expected Fix Date	Comment/Status	Assigned to
64	Settlement Revision 2 has 'Other' charges in the PDF which are not detailed in the Direction Transactions in the .TXT	Medium	10-Sep-21	Known wholesale production issue. Multiple participants impacted.	AEMO
85	SRA Report - Directions Transactions \$ amount Issue	Medium	10-Sep-21		AEMO
92	Tran Ack file received for MDN has same "Key Info" value for multiple records	Medium	7-Sep-21		AEMO
108	Zero UFE data in Transition Week for T1 Participant	Medium	7-Sep-21		AEMO
115	Bug reported from test: Verify receipt of Preliminary Invoice	High		Ongoing	AEMO
121	MTRD group MDN- TACK rejection	High	7-Sep-21		AEMO
126	Unable to reconcile the Wholesale settlement spreadsheets as the metering data wont match.	Medium		As advised the prelim invoice produced last week does not reconcile to MSATS due to data quality issues	AEMO
133	NEM13 data rejected with "Invalid Method Flag- 3009" where Method flag is "F69"	Medium	7-Sep-21		AEMO
139	ADME Values are populating NULL	High		Settlements team is looking into the issue.	AEMO
141	AEMO API Bidding gateway for PRE-PROD change	High		Under investigation	AEMO
151	The first 9 intervals display value as 'undefined' for requested RM17 for Interval NMI, Settlement Week 30 Prelim, Settlement Case ID #8596.	Medium	17-Sep-21	Defect fix being progressed for 17-Sep-21	AEMO
157	Clarification - Error Code - 9 Description for Tran Ack	Medium			AEMO
164	Invalid Datastream Suffix - error code>3026<	Medium	7-Sep-21		AEMO
166	5 min Price Sensitivities data in Pre-Prod – Data issues	Medium			AEMO
167	Unable to reconcile RM16 against RM21	Medium			AEMO
175	SETREALLOCATIONS – Period ID Differences	Medium		Work in progress, re-review request with AEMO	AEMO
177	RM43 not generated for settlement week 14 August onwards	Medium		Waiting until UFE Report Subscription functionality has been verified as fully functional.	AEMO
182	RM16 Reports larger than 10MB are unable to be processed by Ergons gateway	Medium			AEMO
187	RM27s seem to have much larger volume than RM16	Medium	14-Sep-21		AEMO
188	Market Portal loses the ability to set Participant	Medium			AEMO
190	Delay in receiving Completed CATS notification and CATS REPORT transactions	Medium			AEMO
191	RM Reports naming issue - report name includes 'nemmco' and not 'userid' of the user	Medium	5-Oct-21		AEMO
192	RM39 report not generating	Medium	13-Sep-21		AEMO
196	Missing RM16 reports for Origin for Final week32 (Powercor & Intlengy)	Medium			AEMO
197	RM17 reports are not received (via Participant Batcher) for settlement case 8577 having 5 minute interval data	Medium			AEMO
198	No Data fetched in Level 3 Settlement report (RM17) for Participant ID STANCEA	Medium			AEMO
199	Key ID Mismatch MDN vs TACK	High			AEMO

Potential defects related to Customer Switching as at 7-Sep-21(1/1)

ID	Description	Priority	Expected Fix Date	Comment/Status	Assigned
146	Customer Switching: CATSNotifications not received for Debt Reversal change requests (1061)	Closed		Under investigation by development team.	AEMO
184	CR1061 Com Notification contains role assignment fields	Closed		Under review and update provided later this week.	AEMO

Test Execution Progress as at 7-Sep-21

Participants	FAILED	N/A	NO RUN	NOT COMPLETE	PASSED	Grand Total
		7	58	3	27	95
1st Energy			21			21
Actewagl			1		7	8
AGL	4	9	5	7	41	66
Alinta	6	1	7	6	19	39
APA	1			1	3	5
Arrow Energy	3			1	2	6
AUSGRID					1	1
Ausnet			1		2	3
CleanCo	3		1		2	6
Energex		1		1		2
Energy Australia		1	6		9	16
EnergyAustralia			3		1	4
Engie		9	6	2	23	40
EvoEnergy					1	1
GloBird			1			1
HARD Software			3	1		4
Hydro Tas				1	1	2

InfiGen	3		1	7	3	14
Intellihub					2	2
Jemena		3		2	3	8
Mondo Energy			1	1	1	3
Monemtum		1				1
Origin	4		3	1	3	11
PlusES		1			1	2
PowerCor					1	1
Red Energy	1			3	12	16
SA Power Net			1		1	2
SA Water				1	7	8
Secure Meters			2	3	6	11
SHELL Energy			1		10	11
Snowy Hyrdo				4	4	8
Stanwell	1				8	9
Tango Energy			3	1		4
Telstra			3	1	1	5
United Energy				1	1	2
Yurika					2	2
(blank)						
Grand Total	26	33	128	48	205	440

Test executions are organised by the participant that initiated the test and does not reflect all the participants that are involved in the test case.

Test Case Assignment and Progress* as at 7-Sept-21 (1 / 3)

	PASSED	FAILED	NOT COMPLETED	NO RUN	N/A	Total
ERMPOWER	36	0	0	3	0	39
GLOBIRD	0	0	0	5	0	5
SPTLSSMP	16	0	0	2	0	18
AES	4	0	0	0	4	8
FIRSTNRG	0	0	0	85	0	85
ACTEWNGY	8	0	0	3	1	12
ACTEWM	9	0	0	0	0	9
ACTEWP	21	0	0	16	1	38
ACTIONM	16	0	0	3	6	25
ACTIONMP	8	0	0	2	0	10
ACTIVMDP	46	0	0	3	21	70
ACTIVMPB	4	0	0	0	3	7
AETVPOWR	12	0	0	0	1	13
AGLE	1	0	0	7	0	8
AGLPARFQ	1	0	0	0	12	13
AGLPARFW	1	0	0	0	12	13
AGLQLD2	12	0	0	2	4	18
ALNTABUS	3	0	0	5	0	8

	PASSED	FAILED	NOT COMPLETED	NO RUN	N/A	Total
ALNTARES	71	2	0	7	8	88
ALNTBHWF	13	0	0	0	0	13
ARROW	14	4	0	0	1	19
B2PS	12	0	0	0	1	13
BBPEM	26	3	0	18	0	47
BORAL	13	0	0	0	0	13
CITIPP	0	0	0	10	0	10
CITIPWMP	4	0	0	3	0	7
CLEANCO	14	1	0	0	11	26
CNUNDAWF	0	0	0	13	0	13
CONTACTA	24	0	0	1	0	25
CPNETMDP	7	0	0	42	6	55
DALRYMPN	1	0	0	0	12	13
DDSF1	8	0	0	0	11	19
DMSMP	18	0	0	5	0	23
EASTENGY	18	0	0	6	8	32
EASTENMP	8	0	0	24	0	32
EASTERN	38	0	0	13	4	55

Test Case Assignment and Progress* as at 7-Sep-21 (2/3)

	PASSED	FAILED	NOT COMPLETED	NO RUN	N/A	Total
EASTERN	38	0	0	13	4	55
EDISON	13	0	0	0	0	13
ENERGEXM	3	0	0	0	3	6
ENERGEXP	20	0	0	4	10	34
ENERGYAP	27	0	0	21	5	53
ENGYAUST	54	0	0	1	18	73
ENGYAVIC	96	0	0	13	15	124
ERARING	13	0	0	0	0	13
ETSAMDP	0	0	0	23	0	23
GLOBALM	17	0	0	45	6	68
IHUBMDP	17	0	0	4	0	21
JENMDP	181	0	0	0	55	236
LOYYANGA	1	0	0	0	12	13
MACQGEN	1	0	0	0	12	13
MDYMDP	16	0	0	9	3	28
MDYMPB	0	0	0	0	3	3
MYMC	2	0	0	0	0	2
NEWGEN	13	0	0	0	0	13

	PASSED	FAILED	NOT COMPLETED	NO RUN	N/A	Total
NPSAIL	0	0	0	13	0	13
PEAKCO	0	0	0	13	0	13
POWCP	2	0	0	10	4	16
POWERCMP	2	0	0	0	0	2
POWERMDP	3	0	0	13	0	16
PULSE	4	0	0	0	2	6
SAWCML	8	0	0	3	0	11
SAWCSGA	1	0	0	0	0	1
SECURMDP	46	0	0	3	0	49
SNOWY	39	0	0	1	15	55
SOLARIS	91	0	0	4	18	113
SOLARISP	79	0	0	0	48	127
SOLARMP	35	0	0	0	9	44
SOUTHHYD	5	1	0	13	72	91
SPANMDP	41	0	0	38	22	101
STANCEA	15	0	0	0	0	15
STANRET	26	0	0	0	0	26
STANSGA	16	0	0	0	0	16

Test Case Assignment and Progress* as at 7-Sep-21 (3/3)

	PASSED	FAILED	NOT COMPLETED	NO RUN	N/A	Total
STANWELL	39	1	0	0	2	42
TCAMP	11	0	0	15	0	26
TCAUSTM	15	0	0	32	4	51
TIPSCO	1	0	0	0	12	13
UEDMDP	30	0	0	18	36	84
UMPLP	2	0	0	27	0	29
UNITED	41	0	0	14	4	59
UNITEDMP	17	0	0	0	3	20
VICLUMO	7	0	0	0	0	7
WGWF	0	0	0	13	0	13
TOTAL	1983	63	2	1627	811	4486

*Participants are dependent on the actions of the previous participant.



5MS Industry Go-Live Plan

Greg Minney

5MS & GS Soft Start Industry Go-Live Plan

Participant Feedback Summary (1 / 2)

Feedback received from 5 participants

Communications

Participant Feedback	AEMO response
Set a schedule of communications and keep to schedule, incl. B2B and MSATS changes complete.	Agreed
If key activities delayed, communications should be sent regarding including status and delay, ASAP.	Agreed
1 participant suggested Checkpoint calls / 1 participant mentioned absence of Support room previously discussed.	Support room details have been added
Checkpoint Teams calls scheduled at critical times e.g. MSATS or B2B is restored. (allows Q&A)	The Support room will be open once MSATS is restored
Consider SMS as well as email.	AEMO considers email to be the most appropriate channel, as the outage period is much shorter than for the Retail cutover, and it is a code release rather than a systems cutover.
Get agreement before cutover from participants to share incident numbers with industry.	It is assumed participants that have provided consent are continuing to provide consent. Those that have not yet provided consent can still do so.

5MS & GS Soft Start Industry Go-Live Plan Participant Feedback Summary (2/2)

Feedback received
from 5 participants

Outages / Defects and Issues

- Specific schedule and timing for all outages for the cutover and future outages for defect fixes
- Maintaining a defects and issues log – possibly maintained on the website
- Communicating future outages clearly e.g. outage for this date, time and for these fixes.

Support

- More specifics on 'elevated support by AEMO'. (3.8)
- More specifics on the duration of the support period is.

Principles / Approach for 5MS Go-Live

- Capability required for participant implementation in production prior to 1 Oct
- Allows participant implementation prior to 1 October, depending on individual go-live plans
- Final releases on 30 September to:
 - **Activate** those components that cannot be enabled earlier, such as production of UFE reports,
 - **Restrict** those components that must cease on 1 October, rejection of interval meter reads in MDMT format
- Where possible commencement of capability is activated based on configuration of prescribed dates, such as acceptance of 5-minute profile bids therefore not requiring software release for activation
- No data conversion required at go-live for Market Systems
- Participants responsible for the implementation of their contingency approaches to ensure appropriate market interaction

Overview of Support Arrangements for 5MS Commencement

Pre- 1 October

- Go-Live Plan walkthrough with RWG 7 September
- Q&A sessions – dates TBD – approx. 17-Sep, 24-Sep, 29-Sep

1 October

- Q&A session on 1 October at 10:00
- Increased Support staff and SME availability

5MS Cutover Support

- It is expected that the Retail cutover will take approximately 4 hours and will commence at 19:30 on Thursday 30 September
- AEMO will send a commencement email, a mid-point update email (time to be included in go-live plan) and a completion email
- A ‘support-room’ will be available from outage finish until 03:00 on 1 October.
 - This will be in place to cover post cutover issues and queries/issues with 5-min bidding from 00:01
 - Can be used to check if an issue has already been identified
 - All issues should still be logged with Support Hub
 - Once the issue has been logged, the ‘support-room’ can be used to receive updates on progress
 - Note: Issues will be prioritised during this time.
 - Updates on key issues (high impact) will be displayed on a slide in the ‘support-room’
 - Participants may use the chat function or speak

5MS Commencement Weekend




- Increased Support Hub staffing over weekend
- SMEs will be available over the weekend








Support post 1 October

- Daily Q&A Sessions
- Daily publication of Issues Log (medium under investigation)
- Extended Q&A session for preliminary and final settlements invoice days
- AEMO will assume that the consent provided to include incident numbers is still in place – please contact 5MS mailbox if you no longer wish to have your organisation’s incident numbers included
- If you have not already provided consent to include incident numbers, please contact the 5MS mailbox




Go-Live Timing Overview












Refer next slide for a breakdown of activities for 30-Sep & 1-Oct

	Email – 5MS mailbox
	Support Hub Bulletin
	5MS Support Room

		September					October		
		1-5	6-12	13-19	20-26	27-30	1-3	As per Week 40 Settlement Calendar	In line with Settlement Calendar
Industry Impacts & Actions	AEMO Actions	<p>1-Sep: AEMO provides Market Start Notice recommending 1-Oct '21 rule start date</p> 	n/a	<p>15-Sep: AEMO notifies participants of planned upgrade for MSATS (46.99)</p> 	n/a	<ul style="list-style-type: none"> 30-Sep b/w 19:30-23:30: AEMO performs MSATS 46.99 & assoc. eMDM release & communicates completion. 30-Sep at 23:30: AEMO opens 5MS Support Room. Support Hub phone line remains available.   	<p>1-Oct at 00:0:1</p> <ul style="list-style-type: none"> ✓ AEMO confirms Commencement of 5-minute bidding ✓ Customer Switching processing implemented for transactions effective  	<p>AEMO produces preliminary settlement statements for the “transition week” for settlement week 40 in line with Settlement Calendar</p>	<p>AEMO produces first RM UFE reports for distribution</p>
	Retail Roles	<p>Participants to ensure individual readiness plans for rule commencement are in place</p>		n/a		n/a	<p>MSATS and B2M outage during cutover</p> <p>23:30: Processing of Retail transactions resumes.</p>	<p>All retail roles process CR transactions with changes introduced for Customer Switching</p>	<p>Settlement cases for transition week include 5 days of 30-minute settlement and 2 days of 5-minute settlement</p>
Wholesale Roles	<p>Participants to ensure individual readiness plans for rule commencement are in place.</p>	<p>Participants can commence submitting 5-minute profile offers</p> <p>Participants submitting 30-minute offers will have those offers rejected</p>	<p>Participants to subscribe or request require RM UFE reports</p>						

Go-Live Timing for 30 September & 1 October

-  Email – 5MS mailbox
-  Support Hub Bulletin
-  5MS Support Room

		September				October		
		30				1		
AEMO Actions	19:30	AEMO performs MSATS 46.99 and associated eMDM release	 	00:01	Customer Switching processing implemented for transactions effective -1Oct			
	21:30	AEMO provides status update on MSATS 46.99 deployment		00:01	AEMO rejects interval metering Data delivered in MDMT format for interval metering data for periods after 1 October			
	23:30	AEMO communicates completion of MSATS 46.99 release	 		AEMO confirms Commencement of 5-minute bidding	 		
	23:30	AEMO opens 5MS Support Room. Support Hub phone line remains available.			AEMO ceases population of 30-minute bidding tables			
	23:30	AEMO replication report post release (if required) to reflect new configuration rules			AEMO rejects reallocations in 30-minute granularity effective post 1 October			
					3:00	AEMO closes 5MS Support Room. Support Hub phone line remains available.		
Industry Impacts & Actions	Retail Roles	19:30	MSATS and B2M outage during cutover	00:01	All retail roles process CR transactions with changes introduced for Customer Switching			
		23:30	Processing of Retail transactions resumes.	00:01	Metering Data delivered to AEMO in MTRD Format for periods post 1 Oct All tranche 1 Metering Data delivered to AEMO for settlement in 5-minute granularity Participants subscribe to RM UFE Reports or request manually after 1-Oct-21 (post MSATS 46.99 release)			
Wholesale Roles					Participants commence submitting 5-minute profile offers Participants submitting 30-minute offers will have those offers rejected Participants to ensure they are subscribed to required 5-minute tables (prior to 1-Oct-21) Participants submitting reallocations to ensure they reflect 5 minute requirements			

Cutover Process and timings

#	AEMO actions	Industry Impacts and actions		Planned Start Time (Market Time, Approx. only)	Communication Channel
		Retail Roles Role	Wholesale Roles		
1	AEMO provides Market Start Notice confirming 1 October 2021 as rule commencement	Participants to ensure individual readiness plans for rule commencement are in place	Participants to ensure individual readiness plans for rule commencement are in place.	Wed 1-Sep-21	5MS Mailbox
2	AEMO notifies participants of planned upgrade for MSATS (46.99)	n/a		Wed15-Sep-21	Support Hub Bulletin
3	AEMO performs MSATS 46.99 and associated eMDM release	MSATS and B2M outage during cutover		Thurs 30-Sep-21 at 19:30	Support Hub Bulletin and 5MS Mailbox
4	AEMO provides status update on MSATS 46.99 deployment			Thurs 30-Sept-21 at 21:30	5MS Mailbox
5	AEMO communicates completion of MSATS 46.99 release	Processing of Retail transactions resumes.		Thurs 30-Sep-21 at 23:30	Support Hub Bulletin and 5MS Mailbox
6	AEMO opens 5MS Support Room. Support Hub phone line remains available.			Thurs 30-Sep-21 at 23:30	N/A
7	AEMO replication report post release (if required) to reflect new configuration rules			Thurs 30-Sept-21 at 22:30	5MS Mailbox
8	Customer Switching processing implemented for transactions effective - 1Oct	All retail roles process CR transactions with changes introduced for Customer Switching (ref 3.4)		Fri 1-Oct-21 at 00.01	N/A
9	AEMO rejects interval metering Data delivered in MDMT format	Metering Data delivered to AEMO in MTRD Format for periods post 1 Oct All tranche 1 Metering Data delivered to AEMO for settlement in 5-minute granularity		Fri 1-Oct-21 at 00.01	N/A
10	AEMO confirms Commencement of 5-minute bidding		Participants commence submitting 5-minute profile offers Participants submitting 30-minute offers will have those offers rejected	Fri 1-Oct-21 00:01	Support hub bulletin and 5MS Mailbox
11	AEMO ceases population of 30-minute bidding tables		Participants to ensure they are subscribed to required 5-minute tables (prior to 1-Oct-21)	1-Oct-21	N/A
12		Participants subscribe to RM UFE Reports or request manually from 1-Oct-21 (post MSATS 46.99 release)		1-Oct-21	
13	AEMO rejects reallocations in 30 minute granularity effective post 1-Oct		Participants submitting reallocations to ensure they reflect 5 minute requirements	1 Oct 21	
14	AEMO closes 5MS Support Room. Support Hub phone line remains available.			1-Oct-21 at 03:00	
15	AEMO produces preliminary settlement statements for the “transition week” for settlement week 40 in line with Settlement Calendar	Settlement cases for transition week include 5 days of 30-minute settlement and 2 days of 5-minute settlement		As per Week 40 Settlement Calendar	
16	AEMO produces first RM UFE reports for distribution	Participants to subscribe or request required RM UFE reports Participants confirm receipt of reports		In line with settlement calendar	

WHAT WILL START OR BE ENABLED?

WHAT WILL BE DISABLED , STOPPED OR REJECTED?

DISPATCH & BIDDING



- ✓ **5-minute profiles bids** via FTP (JSON), Web bidding (5MS) and API will be accepted.

- ✗ 30-minute bids will be rejected
- ✗ Bids via FTP txt (legacy) and Web Bidding (30 Minute legacy) will not be accepted
- ✗ AEMO stops populating 30-minute bidding tables.

RETAIL



- ✓ All Interval metering data must be delivered to AEMO in **MTRD format**
- ✓ All tranche 1 metering to be delivered to AEMO for settlement in **5-minute granularity**
- ✓ All tranche 1 meters to provide **register level metering** data
- ✓ **RM UFE Reports** generated for settlement runs at 5-minute (includes 2 days of transition week)
- ✓ Participants **must subscribe** or **request** reports RM UFE reports (i.e. no automatic push of reports)

- ✗ MDMT files for interval meters will be rejected

SETTLEMENTS



- ✓ AEMO produces **preliminary settlement** statements for settlement week 40 (as per settlement calendar)
- ✓ All Periods post 1 October to **be settled at 5-minute**
- ✓ **UFE Volumes** reported for 5-minute settlement periods

- ✗ Participants will be unsubscribed from legacy tables

**5MS Rule
Commencement
1-Oct-2021**

Transition to 5MS – from 1 October

- **B2B**
 - No outage for B2B during MSATS Release
 - Meters that have been converted to 5-minute granularity will be delivered at that granularity (unless agreement in place)
- **B2M metering Data**
 - All tranche 1 meters delivered in 5-minute granularity
 - All interval Meters delivered in MTRD Format
- **RM Reports**
 - RM UFE Reports produced for settlement runs at 5-minute (includes 2 days of transition week)
 - Participants must subscribe or request reports (ie no automatic push of reports)
- **Bidding**
 - 5 Minute profile bids accepted via 5-minute bidding service
 - 30minute bids rejected
- **Settlement**
 - Periods post 1 October to be settled at 5-minute
 - UFE Volumes reported for 5-minute settlement periods

Rule Commencement in case of cutover failure

- In line with market start notice rule will commence on 1 October
- 5MS capability compliant with NER is available in the production environment ahead of 1 October:
 - All retail capability to receive 5-minute metering data from compliant has been available since 21 June
 - 5-minute bidding service can currently receive 5-minute bids and is configured to receive 5-minute profile bids from the 1 October
 - Rejection of 30-minute bids has been configured into the existing 30-minute bidding service

Tranche 1 Metering Update

Blaine Miner

Tranche 1 Meters Overview

(As at 6 September 2021)

- Total Tranche 1 meters – 19,381
 - Essential Meters (Transmission connected)
 - Number and classification of essential meters has changed due to recent Participant standing data updates in MSATS
 - Total number of meters – 4,332
 - 4,237 meters are currently being reported as being 5min capable, after MP updates are applied
 - Of the remaining 95 meters:
 - 26 'Active' meters are still not 5min capable, after MP updates are applied
 - 69 'Non-active' meters (Greenfield, De-energised, Non-market, etc.) are being treated as low risk
 - Non-essential Meters (Distribution Connected)
 - Total number of meters - 15,049
 - 13,548 meters are currently being reported as being 5min capable
 - Of the remaining 1,501 meters:
 - 1,390 meters are still not 5min capable
 - 111 'Non-active' meters (Greenfield, De-energised, Non-market, etc.) are being treated as low risk
 - Notes:
 - Contingency Plans relating to essential metering capability (installation and delivery of 5min metering data) are currently being established/finalised with applicable Participants

Tranche 1 Overview

(Based on MSATS RTCs Only)

Category	NMI Class	# of meters	With 5min RTC	% with 5min RTC	RTC still to be updated
Essential	Bulk	2,463	2,290		173
	Interconnector	9	6		3
	Market Generators	803	713		90
	NREG	983	942		41
	Market Customers	39	39		
	Cross Boundary	34	32		2
	Small	1	1		
	Essential Totals	4,332	4,023	92.87%	309
Non-essential	Large	14,680	13,305		1,375
	Small	354	296		58
	Market Customer	15	15		
	Non-essential Totals	15,049	13,616	90.48%	1,433
Tranche 1 Grand Total	19,381	17,639	91.01%	1,742	

Note: Updates to NMI Classification Codes and meter statuses in MSATS will change reported volumes week to week

Tranche 1 Overview

(Post MP Update)

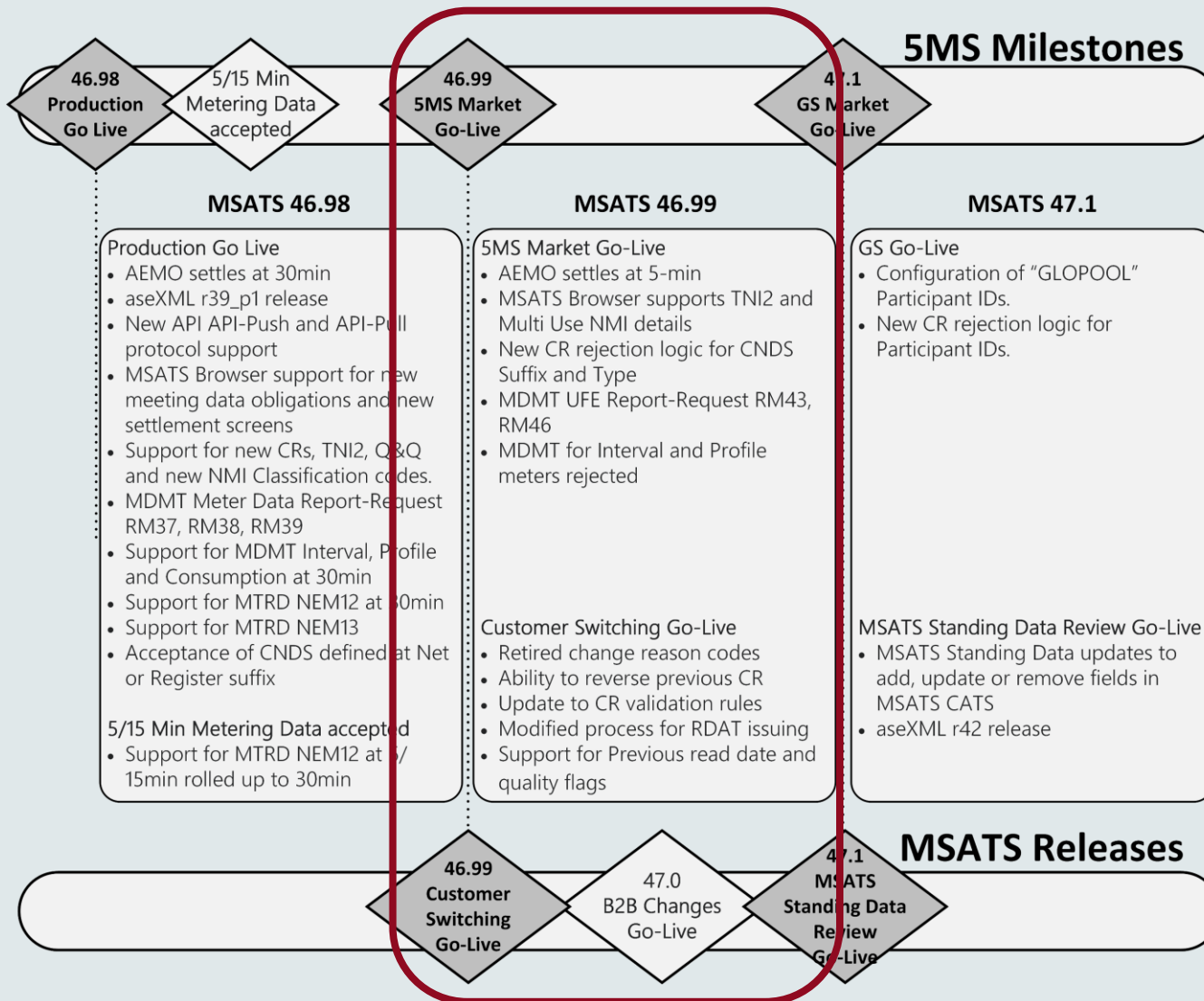
Category	NMI Class	# of meters	5min Capable	Scheduled for Sept	Greenfield/ De-energised, Non-market
Essential	Bulk	2,463	2,441	15	7
	Interconnector	9	9		
	Market Generators	803	792	1	10
	NREG	983	922	10	51
	Market Customers	39	39		
	Cross Boundary	34	33		1
	Small	1	1		
	Essential Totals	4,332	4,237	26	69
Non-essential	Large	14,680	13,259	1,342	79
	Small	354	274	48	32
	Market Customer	15	15		
	Non-essential Totals	15,049	13,548	1,390	111
	Tranche 1 Grand Total	19,381	17,785	1,416	180



Retail Update

Jim Agelopoulos, Simon Tu, Paul Lyttle

Retail Functionality: MSATS 46.99 for 1 October



- 46.98 go-live – 21 June 2021
- 46.99 go-live relates to the 5MS Rule Commencement
- 47.1 relates to the Global Settlements Rule Commencement

RM Report Row Limit Update

Analysis of 5-minute settlement report sizes:

- RM Reports that include interval data will increase uncompressed size by 5 times their current size
 - AEMO intends to change the row limits on the (RM16) and (RM27) Settlement reconciliation reports
 - AEMO are providing awareness to market participants of the intended change
 - Participants currently handle multiple responses for reports
 - The changes to row limits are to reduce file sizes and network impacts
- AEMOs intended change details
 - AEMO intends to reduce the report row limit for RM16 from 50,000 to 10,000
 - Participants will receive multiple report responses if number of rows in their report exceeds 10,000
 - The change is to reduce file size and associated network impacts
 - AEMO intends to increase the row limit for RM21/27 from 10,000 to 50,000
 - Participants will receive fewer report responses for each settlement case
 - Due to the small size of current files the size change should not impact participants
 - No other RM reports are recommended to have the row limits changes
- Participants are asked to provide any feedback by **Thursday 09/09/2021**

• Refer next page for report analysis

RM Report Row Limit Update

Report Analysis

- RM16 – level 1 Settlement Reconciliation
 - 30 minute: Row Limit 50,000 Current Size (Uncompressed) 19.8MB
 - 5 minute: Retain Row Limit Estimated Size (Uncompressed) 94.3MB
Proposed Limit **10,000** Estimated Size (Uncompressed) **18.7MB**
- RM21/27 – Level 2 Settlement Reconciliation
 - 30 minute: Row Limit 10,000 Current Size (Uncompressed) 0.75MB
 - 5 minute: Retain Row Limit Estimated Size (Uncompressed) 0.75MB (no size impact)
Proposed Limit **50,000** Estimated Size (Uncompressed) **3.75MB**
- RM20 – PPS report
 - 30 minute: Row Limit 4,000 Current Size (Uncompressed) 2.0MB
 - 5 minute: Retain Row Limit Estimated Size (Uncompressed) **11.9MB**
 - No change to row limits is proposed for this report, AEMO assumes that participants can support the increase in file size.
- Other RM reports row limits can supported by participant as the file sizes are not large.

Outbound filename / messageContextID

Simon Tu

Outbound filename / messageContextID

Initial Proposal

AEMO to update the eMDM to name outbound MDMT files to the following standard:

- mdmt + l/m/h + "_" + [userID]{1,15} + "_" + [0-9_a-z]{1,13}
e.g. "mdmtm_nemmcobatch_b224f678b_26cn.zip"

This would revert the file name for MDMT ReportResponses and MDMT MeterDataResponse to include userID again where:

- For an API/FTP initiated ReportResponse and MeterDataNotification, userID is the securityContext of the request.
- For a MSATS Browser initiated ReportResponse, userID is the browser user name.
- For a settlement initiated ReportResponse, userID is the value 'nemmcobatch'.

To protect the uniqueness of the eMDM filename the proposed eMDM outbound MDMT file name is a variation on the pre-June 21st MDMT file name in the following ways:

	Pre-June 21 st mdmt file name	Initial Proposed mdmt file name
Naming Standard	mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [0-9]{1,9}	mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [0-9_a-z]{1,13}
Uniqueness of the filename maintained by	9 Numeric characters	13 Alphanumeric characters and the "_" underscore character
Max characters exclusive of ".zip"	31 characters (max)	35 characters (max)
Example	mdmtm_nemmcobatch_123456789.zip	mdmtm_nemmcobatch_b224f678b_26cn.zip

Outbound filename / messageContextID

In mid August 2021 a participant raised with us the following concern regarding the file name proposal.

Participant problem statement

The randomly generated component of the filename (mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [0 9_a z]{1,13}) does not allow participant systems to easily ingest multi-file RM reports. For multi-file RM reports, this participant's systems relies on either a sequential or lexicographical order to group messages and then process them in memory to identify their sequence (e.g. '1-of-220,'2-of-220', 220-of-220').

Question

How can AEMO minimise file name collision while providing a means by which participants can optimising their report ingestion?

Outbound filename / messageContextID

Updated Proposal

AEMO to update the eMDM to name outbound MDMT files to the following standard:

- `mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [constant for RM report]{3,3} + [0 9_a z]{10,19}`

Where:

- `[userID]` – is either ‘nemmcobatch’ or the MSATS userID that can be a min of 6 and max of 15 characters long.
- `[constant for RM report]` - is a 3 character random value that will be the same for all report messages relating to a single request. Therefore if there is 220 responses, the report constant will be the same for all 220 messages.
- `[0 9_a z]` – is a random alphanumeric value sequenced in *a lexicographic ordering*. It’s length would alter dynamically based on the number of characters that userID has consumed but it’s length must not cause the filename to go over 35 characters.
- Together these components to file name would mean that each RM report response will have a unique constant and unique lexicographically sequential order for your systems to group by.

	Pre-June 21 st mdmt file name	Updated Proposed mdmt file name
Naming Standard	<code>mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [0-9]{1,9}</code>	<code>mdmt + l/m/h + "_" + [userID]{6,15} + "_" + [constant for RM report]{3,3} + [0 9_a z]{10,19}</code>
Uniqueness of the filename maintained by	9 Numeric characters	10-19 Alphanumeric characters and the “_” underscore character
Max characters exclusive of “.zip”	31 characters (max)	35 characters (max)
Example	<code>mdmtm_nemmcobatch_123456789.zip</code>	<code>mdmtm_nemmcobatch_brt224f6dsv5d78b_26cn.zip</code>

Outbound filename / messageContextID

Example of a 220 multi-file RM27 settlement report (userID `nemmcobatch`):

File name	Constant for RM report	Lexicographic sort order of the filename	File sequence of the aseXML report body
mdmtm_ <code>nemmcobatch</code> _jdi1ghfrfac0sfgs9.zip	jdi	1	1 of 220
mdmtm_ <code>nemmcobatch</code> _jdi2_0aerff5sed4e.zip	jdi	2	2 of 220
mdmtm_ <code>nemmcobatch</code> _jdi83gcf4fd5jwa78.zip	jdi	3	3 of 220
mdmtm_ <code>nemmcobatch</code> _jdi29sf56ej_gh45.zip	jdi	4	4 of 220
...
mdmtm_ <code>nemmcobatch</code> _jdi29sf56ej_gh45.zip	jdi	220	220 of 220

Example of a 33 multi-file RM21 raised using the MSATS Browser by userID `areallylongname` :

File name	Constant for RM report	Lexicographic sort order of filename	File sequence of the aseXML report body
mdmtm_ <code>areallylongname</code> _srt1d35g6cf_f.zip	srt	1	1 of 33
mdmtm_ <code>areallylongname</code> _srt4fd5jf43ws.zip	srt	2	2 of 33
mdmtm_ <code>areallylongname</code> _srt2a8u73cf29f.zip	srt	3	3 of 33
mdmtm_ <code>areallylongname</code> _srt2d5sgag53gh.zip	srt	4	4 of 33
...
mdmtm_ <code>areallylongname</code> _srtysr7ha_9sf.zip	srt	33	33 of 33

Outbound filename / messageContextID

Delivery Dates

Preprod

- Week commencing 11th October 2021.
- AEMO will provide at least two weeks of testing in Preprod before deploying to Production.

Prod

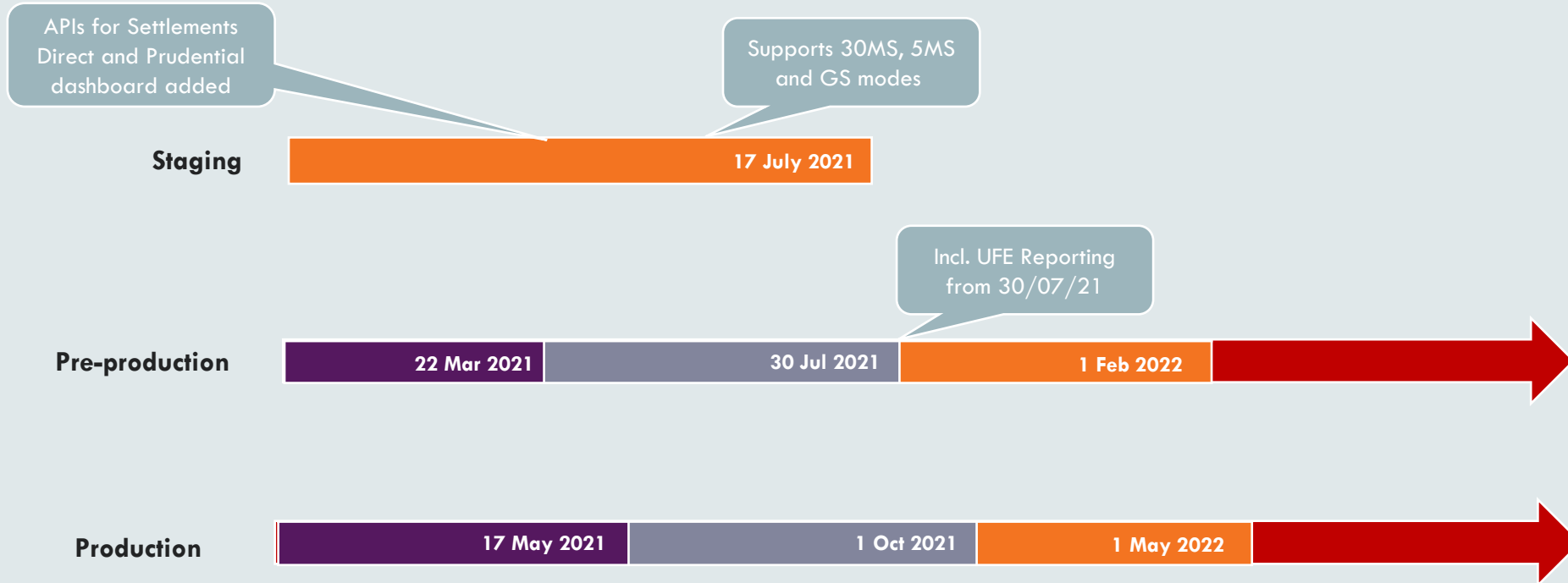
- Production date to be confirmed but likely to either be the 23rd October 2021 release (to align with outage for WDR deployment) or the week commencing 25th October 2021.



Settlements Update

Ian Devaney

Settlements Go-Live update



Legend

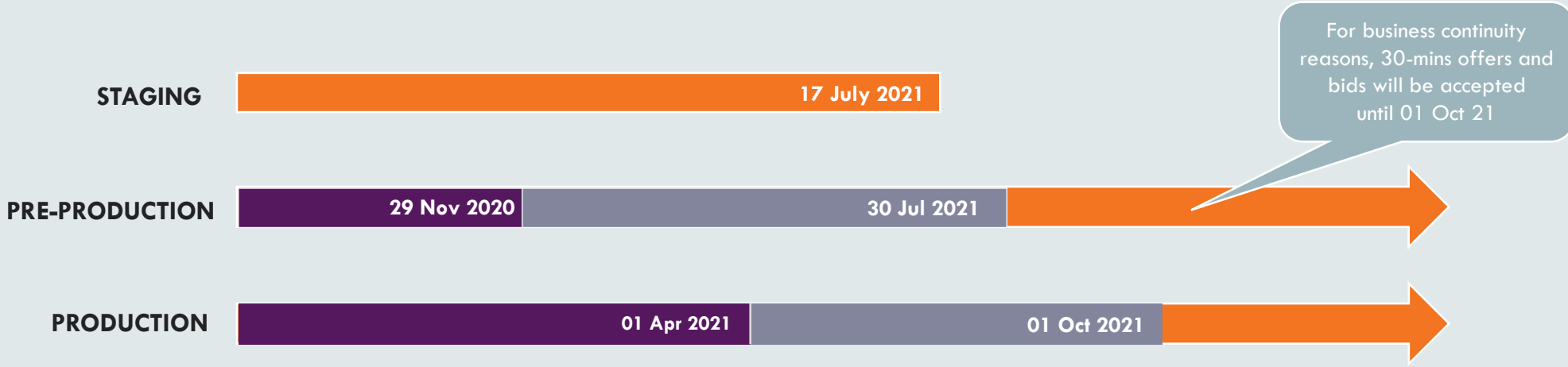
Legacy	30MS with New Settlement Platform	5MS Rule	GS Rule
30-minute Settlements	The 5MS capable solution is available in the relevant environment, however 30-minute settlement will remain until the environment reflects the 5MS Rule solution	Five-minute settlement and Global Settlement soft-start - UFE Reporting	All Retailers become liable for UFE

Bidding Update

Ian Devaney

Bidding / Dispatch

Go-Live update



LEGEND

LEGACY	BIDDING TRANSITION	5MS RULE
30-minute bidding only via: <ul style="list-style-type: none"> FTP (txt) Web Bidding (Legacy) 	30-minute bidding via: <ul style="list-style-type: none"> FTP (txt) Web Bidding (Legacy) 5-minute bidding* via: <ul style="list-style-type: none"> FTP (JSON) Web Bidding (5MS) API <i>*Each 5-minute bid within each half hour must be identical, giving the same effect as the submission of a 30-minute bid.</i>	5-minute bidding* only via: <ul style="list-style-type: none"> FTP (JSON) Web Bidding API <i>*30-minute bid emulation restriction lifted</i>

Participant Feedback on Retail Cutover

Anne-Marie McCague

Summary of Feedback Received

- AEMO requested feedback through the RWG PIR and the Retail Q&A sessions.
- Responses were received from Red Energy, PlusES, AGL, Origin and Intellihub.
- AEMO has reviewed feedback and identified three ways in which feedback can be taken into account: immediately through the Retail Support Process, putting in place processes for Rule Commencement and post commencement support, sharing the feedback with other AEMO programs through the Lesson Learned Log

Retail Support Process

- Twice weekly Retail Q&A sessions and daily issues log are helpful
- Not including incident numbers against Issues makes it difficult for participants to track their own issues
 - AEMO has advised that incident numbers can be included with consent from participants
- Greater transparency for defect fixes / participant role in testing defect fixes
 - Further information on defect fix dates is included in the Retail Issues Log
 - Overview of defect fix is provided through the twice weekly Retail Q&A sessions
- Lack of visibility into the prioritisation of feedback and whether an issue impacts multiple participants
 - Prioritisation and impact have now been included in Log
- Defect release predictability
 - AEMO has committed to regular defect releases

5MS Industry Go-Live Plan

- Frequent comms worked well and were clear and well structured
 - Comms scheduled will be included in the Go-Live Plan
- Preparation briefing sessions worked well – AEMO will schedule same in advance of 1 Oct
- Delay in scheduled comms can cause confusion
 - AEMO will avoid delays by issuing a status at scheduled time
- Greater transparency on go/no-go decision making
 - AEMO has provided PCF the approach to the go/no-go assessment including the criteria
- Two-way comms and transparency over industry facing incidents
 - AEMO will establish a Support Room for 1 Oct and will continue Q&A sessions during October
- Online Issues Log could provide greater flexibility and reduces risk of working from old version

AEMO Lessons Learned Log

- AEMO should consider maintaining an environment for the purposes of participant testing of defect fixes
- System changes communicated through slide packs have resulted in discrepancy from consulted procedures.
- Failure to deliver projects to a schedule, impacting our resourcing and costs.
- Not enough time between first clean run of settlements left limited time for participant testing prior to Retail Go-Live
- Lack of performance testing prior to Go-Live
 - AEMO's approach to performance testing targeted the solution areas identified most at risk for performance challenges, that is metering data ingestion and profiling allocation/preparation.

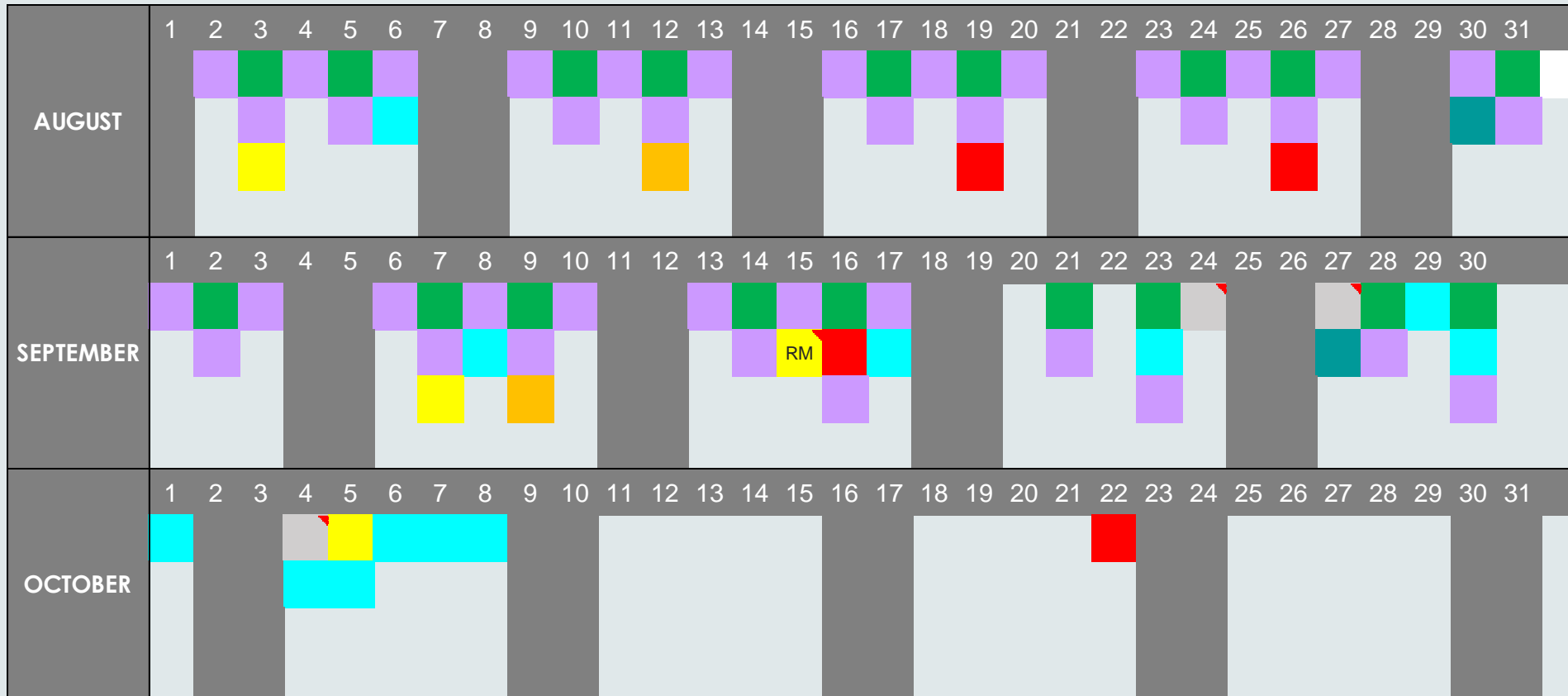


Forward Plan and Other Business

Greg Minney

Upcoming Meetings

Current as at 02/09/2021



Forums/Working Groups
Executive (EF)
Program Consult. (PCF)
Systems (SWG)
Readiness (RWG)
Industry Testing (ITWG)
Focus Groups
Transition (TFG)
Market Trial (MTFG)
Other
Information sessions
Q&A session
Industry Testing
Retail Q&A
National Public Holiday
State Public Holiday

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



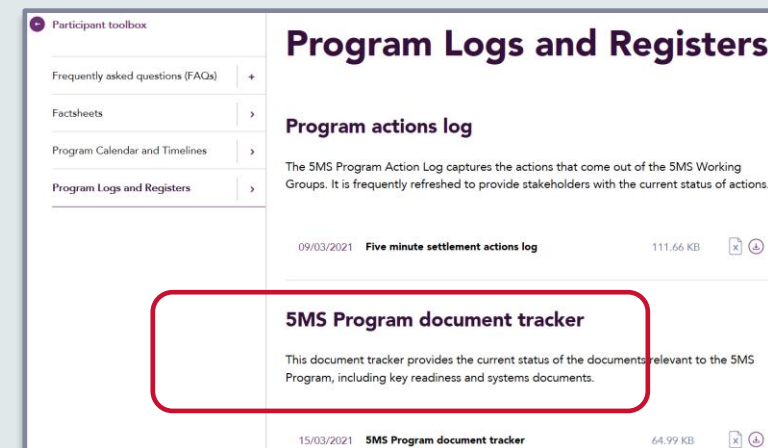
Document tracker updates – as at 3-Sep 2021

- This page will appear in all RWG packs moving forward to represent the updates that were made to 5MS and GS documents for the month.
- This information is also captured within the **document tracker**, with recently updated documents highlighted in **yellow**.

Document/ Item	Version	Status	Type
Industry Go-Live Plan	1.0	Final	Readiness

Where is the document tracker located?

The document tracker is located in the [Participant toolbox](#) under the [Program Logs & Register](#) menu option.



October RWG

- Propose to hold on 12th October
- Debrief and update on rule commencement performance
- Engagement Model Proposed for GS implementation

Questions