

## **Global Settlement**

February 2022

GS and MCPI Industry Go-live Plan

# Important notice

#### PURPOSE

This paper describes the go-live approach with respect to the upgrade of AEMO's systems for 5MS rule commencement and global settlements soft-start.

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#### **VERSION CONTROL**

# **Executive summary**

AEMO and National Electricity Market (NEM) participants are currently implementing the five-minute settlement (5MS) and global settlement (GS) market reforms, and the implementation program has entered its market readiness phase.

The National Electricity Rules (NER) changes for 5MS and GS have amended or introduced new regulatory obligations on certain NEM participants and AEMO. They require significant updates or changes to market procedures, metering and market and participants' systems at various times. AEMO has a key coordination role, through collaboration with its industry working groups, to ready industry and itself for the various system and market "go-live" dates.

This document describes the go-live approach with respect to the upgrade of the relevant systems for the commencement of the 5MS rule and global settlements soft-start.

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

- AEMO to assess the level of Industry and AEMO readiness for the commencement of the Five-Minute Settlement rule and to issue a 5MS start notice in confirmation of that date.
- AEMO to enable the market software to commence operations in line with rule requirements
- Participants to complete their preparations in readiness for 5MS market commencement on 1 October 2021
- Participants to enable their systems and processes in line with 5-minute settlement and GS soft start operation

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# 1. Introduction

This chapter explains the Australian Energy Market Operator's (AEMO) five-minute settlement (5MS) and global settlement (GS) implementation program. It then details the purpose and context of the 5MS and GS Soft Start Industry Go-Live Plan. For the purposes of ease of reading, all references to 5MS rule commencement or 5MS commencement should be assumed to include the global settlements soft start.

### 1.1 AEMO's 5MS and GS implementation program

The Australian Energy Market Commission (AEMC) made the 5MS rule<sup>1</sup> in November 2017 and AEMO's extensive 5MS implementation program began in early 2018.<sup>2</sup> GS activities were incorporated into the program when the GS rule<sup>3</sup> was made in December 2018 because aligning 5MS and GS implementation activities is intended to minimise costs for AEMO and market participants.

On 9 July 2020, the AEMC determined that the commencement of the 5MS rule and GS rule should be delayed by 3 months, so that they commence on 1 October 2021 and 1 May 2022 respectively.<sup>4</sup>

The program covers the procedural, IT system and market readiness arrangements needed to implement 5MS and GS using the following workstreams:

- Procedures –defines and implements the required changes to market procedures
- Systems designs, develops, tests, and implements changes to AEMO's market systems
- Readiness coordinates, assists, and prepares AEMO and participants for the transition to 5MS and GS.

AEMO's 5MS and GS implementation program has entered the market readiness phase of the project. This paper relates only to market readiness.

#### 1.2 GS Commencement

The Global Settlement Soft Start period, during which AEMO is to publish UFE commenced on the 1 October 2021. From the 1 May 2022 settlement in the NEM will be conducted under Global Settlement, including the financial settlement of UFE

#### 1.2.1 Document purpose

This document describes the go-live approach with respect to the deployment of Retail upgrades and GS transition to support GS and MCPI rule commencements

#### 1.2.2 Development approach

The GS Industry Go-Live plan is developed in consultation with industry through the MAY22 Readiness Working Group (RWG). Table 1 below illustrates AEMO's engagement approach and timeline for developing the plan.

<sup>&</sup>lt;sup>1</sup> National Electricity Amendment (Five minute settlement) Rule 2017 No. 15, Australian Energy Market Commission, available at: <u>https://www.aemc.gov.au/rule-changes/five-minute-settlement</u>, as further amended by the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7, available at <u>https://www.aemc.gov.au/rule-changes/five-minute-settlement-and-globalsettlement-implementation-amendments</u>

<sup>&</sup>lt;sup>2</sup> Details of AEMO's 5MS and GS implementation program: <u>http://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement</u>

<sup>&</sup>lt;sup>3</sup> National Electricity Amendment (Global settlement and market reconciliation) Rule 2018 No. 14, Australian Energy Market Commission, available at: https://www.aemc.gov.au/rule-changes/global-settlement-and-market-reconciliation, as further amended by the National Electricity Amendment (Five minute settlement and global settlement implementation amendments) Rule 2019 No. 7, op cit.

<sup>&</sup>lt;sup>4</sup> Details on the delayed implementation of five minute and global settlement: <u>https://www.aemc.gov.au/rule-changes/delayed-implementation-five-minute-and-global-settlement</u>

Milestone	Date
Initial engagement with the RWG	22 Feb 2022
Publish draft for industry feedback	1 March 2022
Deadline for industry feedback	15th March 2022
Publish final plan	12 April 2022

#### Table 1 5MS and GS Soft Start Industry Go-Live Plan development timeline

## 2. GS Industry Go-live Plan Framework

#### 2.1 Scope

- In scope
  - o Deployment of Retail systems changes to support GS and MCPI implementation
  - Update of LR and FRMP responsibilities to reflect Global Settlement requirements (GLOPOOL Update)
  - o AseXML r42 schema update process
  - o Transitional impacts for inflight CATS transactions
  - Communications during deployment
  - Support arrangement during transition to GS operation
- Out of scope
  - o Participant deployment approaches for GS and MCPI capability
  - Management or update of LR and FRMP responsibilities to participant systems
  - Participant Contingency plans

#### 2.2 Principles

The Industry transition and go-live strategy principles apply to the GS rule commencement. These are:

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

<sup>&</sup>lt;sup>5</sup> Full descriptions of each principle are set out in the Industry transition and go-live strategy at: <u>https://aemo.com.au/Electricity/National-Electricity-Market-NEM/Five-Minute-Settlement/Readiness-Workstream/Key-Readiness-Documents</u>

# 3. Global Settlement Industry Go-Live Plan

### 3.1 Go-live plan

Following The Global Settlement Soft Start on 1 October 2021, Global Settlement will take effect from the 1 May 2022. At the same time changes to implement the requirements of MCPI will also commence from 1 May 2022

- 1. AEMO will deploy the required market systems upgrades to become effective from 1 May.
- 2. AEMO will execute the transition process to change the relevant Local Retailer responsibilities in MSATS to reflect requirements of Global Settlement (GLOPOOL Transition). During this period AEMO will provide updates on progress and distribute reconciliation reports to impacted participants post completion of all changes
- 3. AEMO request participants to not raise Create NMI change requests from 1 day prior to the GS rule start until the completion of the transition process.
- 4. Participants are responsible for the update (as required) of their systems to reflect the changes of the Local Retailer Responsibility
- 5. Procedural changes to reflect GS and MCPI CR population requirements will become effective as at 1 May 2022
- 6. Settlement statements and reports for all periods post the 1 May will be settled using Global Settlement logic, with periods prior to the 1 May 2022 continuing to be produced via settlement by difference.
- 7. Participants are responsible for their transitions to enable compliant interactions with the market systems from 1 May 2022, noting the transitional arrangements available.

#### 3.2 Communications

Correspondence regarding the go-live will be released through AEMO Support Hub bulletins and the GSMSDR mailbox.

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

- General progress updates provide participants with information about the status of the GS Transition activities and general progress updates, and will be distributed via the GSMSDR mailbox
- Support Hub Notices provides information to the market on Software release including outage commencement and completion timeframes
- Issues should any issues arise or deviations from the previously communicated processes, participants will be notified through the GSMSDR mailbox. If the issue or deviation is in relation to a notice previously sent through AEMO's Support Hub Notices, participants will receive a communication through this channel in addition to the GSMSDR mailbox.

### 3.3 GS Industry Go Live schedule

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

#	AEMO actions	Industry Impacts and actions	Planned Start Time (Market Time, Approximate only)	Communication Channel
1	Notice of planned release for MSATS 47.1 including r42 Schema		Wednesday 20 <sup>th</sup> April	Support Hub Bulletin
2		Participants confirm MSATS schema preferences in preparation for r42 schema release	Friday 22 <sup>nd</sup> April	GSMSDR Mailbox
3	AEMO provides extract <u>Count</u> of NMIs LR to be updated, and provide a <u>List</u> of NMIs FRMP to be updated		Tuesday 26 <sup>th</sup> April	List to be made available to LR participants only, Emailed to nominated account
4	AEMO deploys MSATS release 47.1 including r42 B2M schema	MSTATS, B2B and B2M outage during upgrade.	Wednesday 27 <sup>th</sup> 5.30 – 7.30 pm To be confirmed	Support Hub Bulletin at commencement and completion of outage?
5	MSATS 47.1 deployed	R42 Schema live, B2M schema preferences activated MSATS , B2B and B2M available	Wednesday 27 <sup>th</sup> April 7.30pm	Support Hub Bulletin on outage completion
6	AEMO notifies Participants to stop raising NMI Create prior to GS update run	Participant to hold NMI create from 11:59 pm 29 <sup>th</sup> April	Friday 29 <sup>th</sup> April 10:00 am	GSMSDR Mailbox

 Table 2
 5MS Rule Commencement Schedule

#	AEMO actions	Industry Impacts and actions	Planned Start Time (Market Time, Approximate only)	Communication Channel
7	GS and MCPI procedure changes become effective	CR 200x, 505X transaction apply validation validations for changes effective post 1/5	Sunday 1 <sup>st</sup> May 12.01 AM	Nil
8	AEMO commences "GLOPOOL" Update	No MSATS outage. NMI discovery may return GLOPOOL or previous LR value during update period. No standing data replication to eMDM until completion of all updates	Monday 2 <sup>nd</sup> May 3:00 am	GSMSDR Mailbox
9	AEMO Provides progress update on BCT updates – includes estimate of completion progress		Monday 2 <sup>nd</sup> May 9:00 am	GSMSDR Mailbox
10	AEMO Provides progress update on BCT updates – includes estimate of completion progress		Monday 2 <sup>nd</sup> May 3:00 pm	GSMSDR Mailbox
11	AEMO Provides progress update on BCT updates – includes estimate of completion progress		Monday 2 <sup>nd</sup> May 9:00 pm	GSMSDR Mailbox
12	AEMO Provides progress update on BCT updates confirm Completion of BCT / MSATS update and will commence eMDM Standing Data Update	All GLOPOOL updates applied to MSATS Participants can recommence NMI create activity	Monday 2 <sup>nd</sup> May 11:30 pm	GSMSDR Mailbox
13	AEMO notifies participants that Metering data ingestion will be paused during Standing Data Synchronisation		Tuesday 3 <sup>rd</sup> May 4:00am	GSMSDR Mailbox

#	AEMO actions	Industry Impacts and actions	Planned Start Time (Market Time, Approximate only)	Communication Channel
14	AEMO pauses Meter	Metering Data will be	Tuesday 3 <sup>rd</sup> May	
	Data Ingestion during eMDM standing data synchronisation	accepted but not ingested. Delays in transaction acknowledgement, potential stop files, RW Settlement report requests not processed (see note)	6:00am	
15	AEMO restarts Meter Data Ingestion	Backlog files will commence reprocessing. RM Settlement reports processed Standing Data synchronisation complete	Tuesday 3 <sup>rd</sup> May 9:00 am	GSMSDR Mailbox
16	AEMO finalises distribution of Reconciliation reports	Participant reconciliation of GLOPOOL updates	Thursday 5 <sup>th</sup> May 5.00pm	Email to participant registered address
17	AEMO produces first preliminary invoice under Global Settlement regime	Commencement of financial settlement of UFE	Wednesday 11 <sup>th</sup> May	Settlement calendar
18	AEMO conducts Industry Q&A following production of preliminary statements for first Global Settlement run		Tuesday 17 <sup>th</sup> May 10:00	Invitation via UFE Focus Group

### 3.4 MSATS transition Processing

As-at 1 May 2022, MCPI capability will be enabled in MSATS. Participants should be aware that depending on the effective date of CRs for NMI maintenance validations may be performed based on post May 1 procedural rules

### 3.5 GS Transition Processing

AEMO will execute the GLOPOOL Transition to update to required Local Retailer (LR) and Financial Responsible Market Participant (FRMP) role changes.

### 3.6 AseXML r42 schema update

The MSATS B2M schema will be updated to r42 at the MSATS release.

Prior to the cutover, participants should ensure that their MSATS B2M preference reflect the settings for their schema requirements post the schema updates. Note that participants' inboxes will have to be cleared before schema settings are updated.

The following participant schema settings are available for selection:

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

Pre - cutover		Post - cutover	Post - cutover		
Schema settings	Schema version	Schema settings	Schema version		
"Superseded"	R35	Schema no longer supported, please manually update to r39_p1 or 42	R35		
"Current"	R39_p1	Updates to "Superseded"	R39_p1		
"Latest"	R39_p1	Updates to "Current"	R42		

Participants that wish to stay on the r39\_p1 schema should ensure schema settings are set to 'Current' and not 'Latest' prior to cutover commencing. Participants on the superseded r35 schema will need to manually update to a newer schema version r42 or r39\_p1.

Participants that wish to transition to the r39\_p1 schema will need to ensure their schema setting is set to 'Latest',

Note that the B2B R38 schema is unaffected by this update.

# 4. Participant Support Arrangements

Participants should use AEMO's BAU support channels and raise all issues and incidents with Support Hub. The GSMSDR mailbox will remain open for general queries relating to the GS Program, e.g. working group arrangements.

#### 4.1 Support Arrangements for preparing for 1 May 2022

The GS program will support participant preparations for 1 May 2022 through:

- Planning and facilitation of Market Trial and Industry test approaches for GS and MCPI
- Progress and Issue management during Market Trial Period
- Continued operation of Industry working groups including RWG, ITWG, UFE Focus group
- Manage queries through the GSMSDR Mailbox

#### 4.2 Production Support

All production issues should be raised via Support Hub and will be managed through the current Retail system support processes, this extends to participant issues relating to r42 schema upgrade, when applied by the individual participant.

### 4.3 Participant Support Arrangements for May

Support Hub will remain the main point of contact for issues, incidents and queries post 1 May.

An Industry Q&A session following the production of the first Global Settlement preliminary invoice will be conducted in the week following the issue, via the UFE Focus Group. Questions from participants can be directed via the GSMSDR mailbox.

# Glossary

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

Term	Definition
5MS	Five-minute settlement
AEMC	Australian Energy Market Commission
AEMO	Australian Energy Market Operator
BAU	Business as Usual
Cutover / Go-live	System implementation event
CR	Change Request
EMMS	Electricity Market Management Systems
FRMP	Financial Responsible Market Participant
GS	Global settlement
ITWG	Industry Testing Working Group
LR	Local Retailer
MCPI	Meter Co-ordinator Planned Interruptions
MDM	Meter Data Management system
MSATS	Market Standing data and Transaction System
MSDR	MSATS standing Data Review
NEM	National electricity market
NER	National electricity rules
RWG	Readiness working group
Transition	Process of shifting from current to future operating state
UFEFG	Unaccounted for Energy Focus Group