5MS & GS Systems Working Group aseXML Focus Group

8 May 2020

Agenda

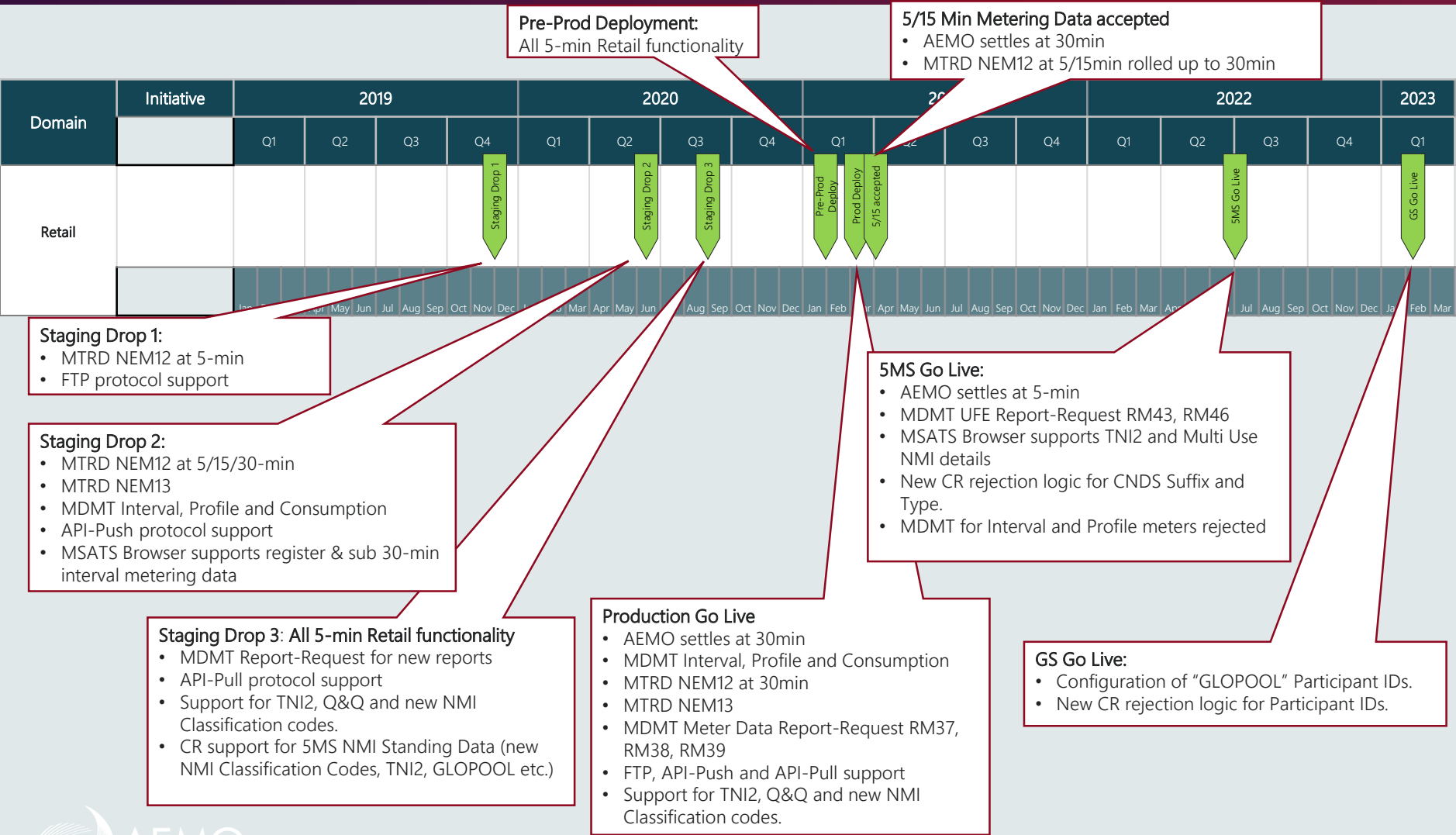| No	Time (AEST)	Agenda item	Presenter
1	10:00 – 10:05	Welcome, introduction	Graeme Windley
2	10:05 – 10:15	Proposed Industry Deferral	Jim Agelopoulos
3	10:15 – 10:30	Schema Update	Paul Lyttle
4	10:30 – 10:50	Industry Discussion	Numerous
6	10:50 – 11:00	Discussion Summary	Paul Lyttle
7	11:00	Meeting Close	

Proposed Industry Deferral

Graeme Windley

Proposed Rule Change Update

- AEMO has submitted a rule change request to AEMC proposing to delay the 5MS and GS dates as follows:
  - The commencement date for 5MS by 1 year to 1 July 2022
  - The "soft" start date for GS to 1 July 2022
  - The "hard" start date for GS to 5 February 2023
  - No change to the 5-min data delivery date of 1 December 2022 for new and replacement type 4/4A meters
  - A transitional rule to allow AEMO to change the effective date of already-determined procedures (updated for 5MS and GS) without further consultation.

- AEMO will continue to deliver the 5MS Program according to the existing program plan

- At the PCF on 5 May, AEMC confirmed its intention to proceed with an expedited rule change process

- At the SWG on 29 April the program team presented the impacts the proposed deferral would have on the AEMO system delivery

- Purpose of today:
  - To discuss the approach to Release 39 (r39)
  - To provide clarity on the actions that participants need to take to ensure they are using a compatible schema

Retail – Impact of 12 month Deferral

Pre-Prod Deployment:
All 5-min Retail functionality

5/15 Min Metering Data accepted
- AEMO settles at 30min
- MTRD NEM12 at 5/15min rolled up to 30min

Domain	Initiative	2019				2020				20				2022				2023
		Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1	Q2	Q3	Q4	Q1
Retail					Staging Drop 1		Staging Drop 2	Staging Drop 3		Pre-Prod Deploy / Prod Deploy / 5/15 accepted					5MS Go Live			GS Go Live

Staging Drop 1:
- MTRD NEM12 at 5-min
- FTP protocol support

Staging Drop 2:
- MTRD NEM12 at 5/15/30-min
- MTRD NEM13
- MDMT Interval, Profile and Consumption
- API-Push protocol support
- MSATS Browser supports register & sub 30-min interval metering data

Staging Drop 3: All 5-min Retail functionality
- MDMT Report-Request for new reports
- API-Pull protocol support
- Support for TNI2, Q&Q and new NMI Classification codes.
- CR support for 5MS NMI Standing Data (new NMI Classification Codes, TNI2, GLOPOOL etc.)

Production Go Live
- AEMO settles at 30min
- MDMT Interval, Profile and Consumption
- MTRD NEM12 at 30min
- MTRD NEM13
- MDMT Meter Data Report-Request RM37, RM38, RM39
- FTP, API-Push and API-Pull support
- Support for TNI2, Q&Q and new NMI Classification codes.

5MS Go Live:
- AEMO settles at 5-min
- MDMT UFE Report-Request RM43, RM46
- MSATS Browser supports TNI2 and Multi Use NMI details
- New CR rejection logic for CNDS Suffix and Type.
- MDMT for Interval and Profile meters rejected

GS Go Live:
- Configuration of "GLOPOOL" Participant IDs.
- New CR rejection logic for Participant IDs.

Schema Update

Paul Lyttle

AseXML Schema

NEM and Gas share a common aseXML versioned schema

AEMOs aim is to:
- Minimise the number of schema updates and reduce impacts to participants
- Reduce the need for schema version changes and version confusion
- Optimise the process for schema change with the ASWG
- Allowing changes to the schema to be made in consideration of other changes occurring within B2B, B2M and Gas

For NEM Retail B2M AEMO supports responding in the current version of the schema or the previous B2M version, as configured by the participant

Example:

Version pre-r35 deployment	Version post-r35 deployment	Impact
LATEST (= r31)	LATEST (= r35)	Messages from AEMO are now in r35 instead of r31.
CURRENT (= r31)	SUPERSEDED (= r31)	Messages from AEMO continue to be delivered in r31 – having been transformed from r35.
SUPERSEDED (= r25)	SUPERSEDED (= r31)	Messages from AEMO are now in r31 instead of r25.

Schema Updates

The next version of the B2M aseXML schema is r39 and will include changes for both the 5MS and Customer Switching Projects.
Updates to the schema consist of the following changes:

5MS

Item#	Change Description	Schema	Change Type
1	Additional of new RM Reports:	MDMT Reports	New
2	Update of existing 'Last Sequence Number' elements to optional	MDMT Reports & CATS Reports	Enhancement
3	Addition of new x of y message block	Reports	New
4	Addition of new Second TNI number for Cross boundary NMIs	Electricity Master Standing Date	New

Customer Switching

Item#	Change Description	Schema	Change Type
1	Addition of Previous Read Dates to NMI Standing Data Response	Common & NMI Data Access	New

Schema Compatibility and Testing

All schema changes are approved through consultation, managed by the AseXML Systems Working Group (ASWG)
- Part of the approval process is to have an external market participant validate the schema format and compatibility.

Market trial testing is NOT performed on schema changes, unless the schema is mandatory for all market participants
- r36 B2B schema was a mandatory upgrade during Power Of Choice.
- r38 B2B schema was introduced without any market trial testing.

To support schemas changes AEMO will transform the B2M schema to support the previous version (n-1)
- It is up to the individual business to determine if they will use the new functionality and therefore need to update to the latest version of the schema
- AEMO support the current B2M schema release and the previous B2M version (superseded)
- If a participant is currently on a superseded version (r31 for B2M) they must update when the new B2M schema is released

Schema Version Updates

Changes to the B2M r39 aseXML schema will be transformed which allows participants to receive responses in the current B2M r35 schema version if they do not want to use new delivered functionality.

High level update options:
Update of schema depend on when or if the Participant want to use the new functionality

	Participant A Update		Participant B Update		Participant C Update		Participant D Update		Participant F Update		Participant G Update	
Current B2M Schema		r35		r35		r35		r35		r35		r31
MDM Go Live	Yes	r39	No	r35	No	r35	No	r35	No	r35	Must	r39
Customer Switching Go Live	No	r39	Yes	r39	No	r35	No	r35	No	r35	No	r39
5MS Go Live	No	r39	No	r39	Yes	r39	No	r35	No	r35	No	r39
GS Go Live	No	r39	No	r39	No	r39	Yes	r39	No	r35	No	r39

Current schema version
r31 = Superseded schema
r35 = Current schema
r39 = Proposed schema

5MS Schema versions
r31 = Must update > n-1
r35 = Superseded schema
r39 = Current schema

Splitting Schema impacts

If the schema was split for 5MS and Customer Switching split this would add extra complexity and force participants to update their schema version earlier:

High level update options:
The more schema releases the more participants are forced to upgrade as only the previous schema is supported

	Participant A Update		Participant B Update		Participant C Update		Participant D Update		Participant F Update		Participant G Update	
Current B2M Schema		r35		r35		r35		r35		r35		r31
MDM Go Live	Yes	r39	No	r35	No	r35	No	r35	No	r35	Must	r39
Customer Switching Go Live	No	r39	Yes	r40	Must	r40	Must	r40	Must	r40	No	r39
5MS Go Live	No	r39	No	r39	No	r40	No	R40	No	R40	No	r39
GS Go Live	No	r39	No	r39	No	r40	No	r40	No	r40	No	r39

Current schema version
r31 = Superseded schema
r35 = Current schema
r39 = Proposed 5ms schema

5MS Schema versions
r31 = Must update > n-1
r35 = Superseded schema
r39 = Current schema
r40 = Proposed CS schema

CS Schema versions
n/a
r35 = Must update > n-1
r39 = Superseded schema
r40 = Current schema

Questions from SWG

Question: If I stay on r38 and the new datastream type code is used, then what will I recieve in the notification to me?

Answer: New data stream type will come out on the exiting schema as per normal.

Action 21.3.3: AEMO to confirm how participants will be notified when new datastream type codes are used when still on the r38.

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

Question: Does r39 apply to B2B messages where it contains standing data details - e.g. TNI2 in a MeterData MissingNotification or MeterDataVerifyRequest.

Answer: The addition of he TNI2 will be included in any schema transaction that results in the Electricity Master Standing Data or Electricity NMI Master Group being returned in the results. This may impact Common NMI Master elements across Standing Data and Change Requests.

Action 21.3.4: AEMO to confirm if r39 applies to B2B messages where it contains standing data details (i.e. TNI2 in a MeterData MissingNotification or MeterDataVerifyRequest)

The above nominated transactions include NMI standing data and will display the TNI2 code when applied to a Cross Boundary connection point

Questions from SWG continued

Question: Does AEMO plan to do a round of regression testing with participants for the R39 schema and will that be part of the MDM industry test phase?

Answer: No, AEMO do not intend to include regression testing with participants, the schema will be made available in the test systems prior to go live for participants to perform their own testing.

Action 21.3.5: AEMO to confirm any plans for regression testing with participants before the release of r39.

The following dates indicate when the Schema will be available for participants to perform industry testing:
>   Staging environment – Drop 3 end of August 2020
>   Pre-Production – Start of February 2021

Question: If a participant is planning to defer 5MS until 2022 but Customer Switching is due to go live before this, then won't they be forced to take R39 schema into production before they have tested 5ms functionality?

AEMO Response: AEMO have a single schema for B2B, B2M and Gas, if participants want to use functionality being introduced that require a check change they are required to take all previous changes within the schema. However it is up to the participants business to determine if they want to use the additional functionality within the schema.

Questions from SWG continued

Question: If it is not mandatory to migrate to r39 schema as a part of the 5MS on 1st July 2021 - then when we will need to migrate to r39?

AEMO Response: The only time it is mandatory to update your schema is when you are currently using the Superseded version and a new version is released.
The key functionality that will be used when the schema is released is: RM37 Report identifying high priority missing meter data to ensure settlements are correct. RM38 and RM39 reports are around MDF data coming in the door and ensuring AEMO has collect all settlement data. These reports are very relevant to MDPs