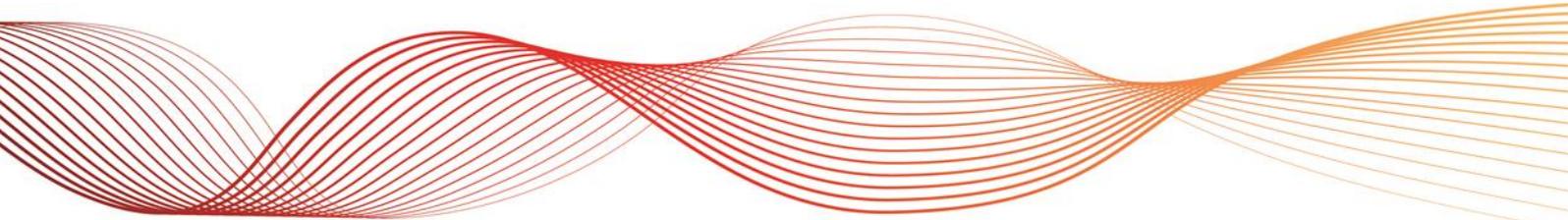




POWER OF CHOICE SCHEMA CHANGES

DESCRIBES THE CHANGES TO AEMO'S E-HUB
VERSION 1.0

Published: **June 2017**





This page left intentionally blank.



CONTENTS

1.	INTRODUCTION	4
1.1	Purpose	4
1.2	Related resources	4
2.	SUMMARY OF SCHEMA CHANGES	5
3.	B2M RETAIL - ASEXML R35 SCHEMA	6
3.1	Reason for schema version	6
3.2	Affected transactions groups	6
3.3	e-Hub interface changes	6
3.4	Available system interfaces	7
4.	B2B RETAIL – ASEXML R36 SCHEMA	8
4.1	Reason for schema version	8
4.2	Affected transaction groups	8
4.3	e-Hub interface changes	8
4.4	Available system interfaces	9
5.	B2B HUB MANAGEMENT – ASEXML R37 SCHEMA	10
5.1	Reason for schema version	10
5.2	Affected transaction groups	10
5.3	e-Hub interface changes	10
5.4	Available system interfaces	10
6.	TRANSACTION GROUPS NOT AFFECTED	11
6.1	Available system interfaces	11



1. INTRODUCTION

1.1 Purpose

This document provides detail about the rollout and impact of the new aseXML schemas for AEMO's e-Hub systems (MSATS and API Gateway).

The information is intended to assist participants to determine the impact on their own business processes and systems as a result of the schema changes.

1.2 Related resources

Related Schema	Resource	Reference
r35	B2M CATS and WIGS procedures	https://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice---AEMO-Procedure-Changes-Package-1
r36	B2B procedures	http://www.aemo.com.au/Stakeholder-Consultation/Consultations/Power-of-Choice-B2B-consultation-2
r36	B2B Mapping to aseXML	To be published
r35, r36	aseXML schema	http://www.aemo.com.au/Electricity/IT-Systems/aseXML_standards/aseXML-Schemas
r35, r36	aseXML schema samples	http://www.aemo.com.au/Electricity/IT-Systems/aseXML_standards/aseXML-Document-Samples
r37	aseXML schema (currently in draft)	http://www.aemo.com.au/Stakeholder-Consultation/Consultations/aseXML-r37-Draft-Schema
r35	Guide to MSATS Web Portal	https://www.aemo.com.au/-/media/Files/PDF/Guide_to_MSATS_Web_Portal.pdf
r35	Guide to MSATS Web Services	http://www.aemo.com.au/media/Files/Other/energy%20market%20information%20systems/Guide_to_Web_Services_v2.01.pdf.pdf
r36	Guide to MSATS B2B	https://www.aemo.com.au/-/media/Files/PDF/GuidetoMSATSB2Bv1000.pdf
r37	SMP Technical Guide	In DRAFT – published in SWG Meeting 9 minutes https://www.aemo.com.au/Electricity/National-Electricity-Market-NEM/Power-of-Choice/Systems-Work-Stream



2. SUMMARY OF SCHEMA CHANGES

The Power of Choice program introduces:

- Changes to the Electricity Retail B2M and B2B transaction schemas.
- A new schema to support notifications from AEMO's e-Hub.

Schema	Type	Location
r35	B2M	http://www.aemo.com.au/Electricity/IT-Systems/aseXML_standards/aseXML-Schemas
r36	B2B	http://www.aemo.com.au/Electricity/IT-Systems/aseXML_standards/aseXML-Schemas
r37	Notifications from AEMO's e-Hub API Gateway	Draft: http://www.aemo.com.au/Stakeholder-Consultation/Consultations/aseXML-r37-Draft-Schema

The following sections detail:

- The purpose of each schema.
- The schema's impact on AEMO's provided e-Hub interfaces.
- The impacted transactions groups.
- The transaction groups not impacted.



3. B2M RETAIL - ASEXML R35 SCHEMA

3.1 Reason for schema version

Supports the changes required for Embedded Networks and Meter Register Status to comply with the associated CATS and WIGS procedures.

3.2 Affected transactions groups

The following transaction groups are impacted:

- CATS - Customer Administration and Transfers
- NMID – NMI Discovery
- MDMT – Meter Data Management

3.3 e-Hub interface changes

When r35 is deployed the following changes will occur:

- Participants can now send r35 B2M messages to AEMO to process.
- Messages created using the MSATS browser B2M interface are sent in r35.
- Participants sending r36 or r37 for B2M messages receive an error.
- Participants can continue to send older B2M messages (r31, r25, etc.) for AEMO to process.
- The MSATS web services only accept r31 and r35. These web services are for:
 - C4 - Single NMI Master Report
 - MSATS Limits
 - NMI Discovery
 - NMI Detail
 - Participant System Status
- AEMO's response is delivered in r31 or r35, depending on the B2M schema configuration in MSATS.

The CATS and WIGS procedures and the MSATS 46.88 Technical Specification provide full detail of the B2M functional changes.

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.



3.4 Available system interfaces

Participants can use the following e-Hub interfaces:

- MSATS Web Services
- MSATS Batch Handlers (FTP over MarketNet)
- MSATS Browser (web portal over MarketNet)



4. B2B RETAIL – ASEXML R36 SCHEMA

4.1 Reason for schema version

Changes required for the Power of Choice program to support the B2B procedure changes.

4.2 Affected transaction groups

The following transaction groups are impacted:

- CUST – Customer related
- MTRD – Meter data
- OWNP – One Way Notification
- SITE – Site Access
- SORD – Service Order
- NPNX (new) – Notified Party transaction
- OWNX (new) – Notice of Metering Works, Planned Interruption Notification and Meter Fault and Issue Notification
- MRSR (new) – remote services request/response
- PTPE (new) – Peer to Peer bilateral exchange

4.3 e-Hub interface changes

When r36 is deployed the following changes will occur:

- Addition of APIs for B2B using AEMO's e-Hub API Gateway
- No transforms will be performed by AEMO's e-Hub for the Dec 1 release.
- Transactions created using the MSATS B2B Browser interface will be created and sent in r36.
- MSATS continues to deliver B2B messages sent in older schema versions but they risk rejection by the counterparty, and may not be in accordance with the B2B procedures.

AEMO recommends participants use Schema r36 to support the new B2B procedures introduced in the Power of Choice changes.

The B2B procedures and the MSATS 46.89 Technical Specification provide full detail of the B2B functional changes.

Version pre-MSATS release	Version post-MSATS release	Impact
r32 Transform: r25 -> r32	r36	No transforms occur. r25 messages from other participants are no longer transformed to r32.
r25 Transform: r32 -> r25	r36	No transforms occur. r32 messages from other participants are no longer transformed to r25.



4.4 Available system interfaces

Participants can use the following e-Hub interfaces:

- *MSATS Batch Handlers (FTP over MarketNet)
- MSATS Browser (web portal over MarketNet)
- e-Hub API Gateway (API's over the internet or MarketNet)

Participants can only send PTPE transactions with attachments using the API Gateway.



5. B2B HUB MANAGEMENT – ASEXML R37 SCHEMA

5.1 Reason for schema version

A new schema introduced to support notifications from AEMO to a participants API Gateway.

5.2 Affected transaction groups

The following transaction groups are impacted:

- HMGT – Hub Management

5.3 e-Hub interface changes

Summary of e-Hub interface changes:

- Participants implementing an API Gateway receive API notifications using r37 messages from AEMO.

5.4 Available system interfaces

Participants can use the following e-Hub interfaces:

- e-Hub API Gateway (web service API's over the internet or MarketNet).



6. TRANSACTION GROUPS NOT AFFECTED

There are no changes to the following transaction groups under the Power of Choice program:

- NETB – Network Billing
- NOTF – Notifications
- FLTS – Faults and Outages
- MKTW – Wholesale Market Operations
- EMMS – Electricity Market Management system
- HSMD – High Speed Monitoring system
- OUTG – NOS outages

6.1 Available system interfaces

Participants can use the following e-Hub interfaces:

- MSATS Batch Handlers (FTP over MarketNet)
- MSATS Browser (web portal over MarketNet)