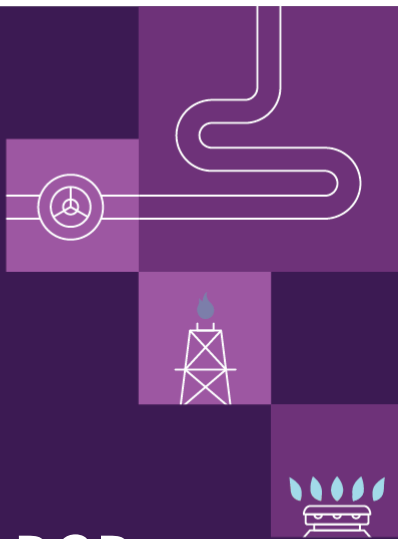




# Impact & Implementation Report (IIR) -2024 Package 1 Gas Retail Market B2B changes



<b>Ref# (if applicable)</b>	2024 Package 1 Gas Retail B2B changes (IN002/22, IN004/22, IN005/24 and IN003/25)		
<b>Impacted jurisdiction(s)</b>	All except Western Australia		
<b>Proponent</b>	AGL, Jemena and AEMO		
<b>Affected Gas Market(s)</b>	Retail	<b>Consultation process (ordinary or expedited)</b>	Ordinary
<b>Industry consultative forum(s) used</b>	GRCF	<b>Date industry consultative forum(s) consultation concluded</b>	14 February 2025
<b>Short issue title</b>	Business-to-Business (B2B) changes Est/Sub Codes (IN002/22), Network Tariff (IN004/22), adoption of aseXML schema version r46 (IN003/25) and adding the contacted Maximum Daily Quantity (MDQ) value in the Retail of Last Resort transaction (RoLR) T1010 (IN005/24)		
<b>Procedure(s) or Documentation impacted</b>	Please refer to Attachment B		
<b>IIR prepared by</b>	AEMO	<b>Approved by</b>	AEMO
<b>Date IIR published</b>	3 March 2025	<b>Date consultation concludes</b>	16 May 2025
<b>Other key contact information</b>	grcf@aemo.com.au <a href="mailto:Louise.Webb@aemo.com.au">Louise.Webb@aemo.com.au</a>		
<b>Version History</b>	<a href="#">Version 1.0: Date published 3 March 2025 replaced with Version 2.0</a> <a href="#">Version 2.0: Date published 26 March 2025 updates to Sections 1, 2.2, 2.3, Attachment B &amp; D</a>		

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## Impact & Implementation Report (IIR) – Detailed Report Section

### Critical Examination of Proposal

#### 1. Description of issue and how to make a submission

##### 1.1. Background and description of issue.

###### Background.

In December 2023 the Gas Retail Consultative Forum (GRCF) decided to embark on a program that would identify cost effective solutions to remedy the 3 issues described below.

Between April to November 2024, AEMO in collaboration with participants undertook a detail review of each of these issues. The review resulted in pinpointing the impacted business to business (B2B)<sup>1</sup> transactions and identify what changes needed to be made to the existing Technical Protocol (TP)<sup>2</sup>.

Section 1.1 of the Proposed Procedure Change (PPC) consultation paper published in December 2024 contains further information about the specific work undertaken by the GRCF during the above-mentioned period. Click [here](#) to view the PPC.

###### Description of Issues.

The following are the 3 initiatives raised by participants<sup>3</sup>. The proposed changes if implemented would remedy inherent issues deemed problematic for participants.

- [JN004/22 \(NSW/ACT\)- Proposed Improvements to Network Tariff B2B Notification](#)
- IN002/22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations
- IN005/24: Inclusion of Contract Maximum Daily Quantity (MDQ) in Gas Retail of Last Resort (RoLR) Transaction Customer and Site Details from Failed Retail Business (FRB) to RoLR (T1010)

Section 1.2 of the PPC consultation paper contains further information about the issues pertaining to the above initiatives. Click [here](#) to view the PPC.

In addition to the above-mentioned initiatives, a new initiative emerged during the first-round consultation (PPC). This initiative was defined when AEMO identified a change in the length of the LocationDescription field introduced as part of the r42 aseXML schema version suite of changes<sup>4</sup>. Below is further information regarding this initiative.

**Deleted:** IN001/24: Updates to Gas Retail Address field lengths & Enumerated values

<sup>1</sup> Business-to-Business (B2B) means the interaction between Retailer and Distributor and vice versa.

<sup>2</sup> Technical Protocols details the technical standards and business processes that enables retail and distribution businesses and AEMO to transfer information between Participant's systems

<sup>3</sup> AGL and Jemena Gas Networks.

<sup>4</sup> Click [here](#) to view the September 2021 aseXML change requests for r42 that proposed a modification to LocationDescription element which is utilised in gas and electricity.

- **IN003/25<sup>5</sup> - Adoption of aseXML schema ver 46.**

Proponent: AEMO

The r46 initiative was discussed in detail in GRCF #164 held on the 4<sup>th</sup> February 2025. Refer to GRCF #164 session pack for further details. Click [here](#) to view.

As background and as a result of r42 aseXML schema updates and subsequent necessary AEMO system changes, this IIR proposes utilising Package 1 Program of work to develop AEMO systems based on r46 aseXML schema to avoid large scale future AEMO schema implementation costs for East Coast Gas Retail market participants should a future National Customer address field alignment be required.

Refer to Attachment E for further details on National Customer Address field Alignment.

Sections 3, 5 and 8 of this IIR provides further details about the changes, overall costs and benefits, and consultation outcomes.

## 1.2. How to make a submission

The changes described in this IIR requires system changes for Retailers, Distributors and AEMO. As such, AEMO seeks feedback from all Retailers and Distributors.

Anyone wanting to make a submission for this Impact and Implementation Report (IIR) consultation stage are requested to use the response template provided in Attachment A.

Submissions are due **COB Friday 16 May 2025** and should be emailed to [grcf@aemo.com.au](mailto:grcf@aemo.com.au).

**IMPORTANT NOTE:** The scope of works is limited to the initiatives described in this IIR. The scope maybe expanded to pick up other minor typographical errors that are identified. A more thorough review of the other clauses of the Procedures is out of scope for this consultation.

## 2. Reference documentation

### 2.1. Technical Protocol (TP) documentation

Attachment B provides a detailed summary of the changes to each of the TP documents. It also contains each TP document showing tracked changes between the current version and the proposed changes.

### 2.2. Schema Manifest r41 to r45

The purpose of this document is to provide a guide for schema releases r41 through r45 which should be factored into respective Package 1 programs of works.

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<sup>5</sup> This initiative was added to the retail market issue/change register and Package 1 program of works on the 24<sup>th</sup> February 2025 having received confirmation from East Coast participants that they supported the r46 proposal. See also section 8 of this IIR.

Changes to the previous PPC version are:

- Inclusion of r45 aseXML
- Inclusion of GasEnumerations.xsd created in r40
- Removal of transactions impacted (referring now to Attachment D of IIR)

For further information see Attachment C.

## 2.3. aseXML Schemas

The AseXML Standards Working Group (ASWG) are the responsible party in relation to modifying and test of amendments to aseXML schema changes. Click [here](#) to view the AEMO webpage that contains an index of aseXML schema releases.

For Package 1 Program of works, participants need to consider versions r41 through to r46 inclusive. At the time of preparing this IIR:

- r45 aseXML Schema
  - ASWG have published r45 aseXML schema - [AEMO | aseXML Schemas](#)
- NEM Consultations (creating r46 aseXML schema)
  - National Electricity Market (NEM) are preparing to formally submit r46 to ASWG on 14<sup>th</sup> March 2025 with a target date for ASWG r46 publication date of no later than the 1<sup>st</sup> May 2025.
  - Consultation links:
    - [AEMO | 2024 Metering Services Review Package 1](#)
    - [AEMO | B2B Procedures v3.9](#)

AEMO will provide r45 and r46 schema status updates throughout Package 1 IIR consultation period.

## 3. Overview of changes

The following documents are being consulted on as part of this IIR. For each initiative, specific procedure updates are detailed below and tracked changed procedures provided in the Attachment B of this artefact.

AEMO has provided the IIR response template for participants to make their submissions in response to this consultation.

### • IN004/22: Proposed Improvements to Network Tariff B2B Notification – NSW/ACT

Introduce two new Distribution Tariffs codes "Volume High" and "Volume Boundary" in the Jemena NSW gas networks. Also move the current DistributionTariff list of enumerations to a non-versioned GasEnumerations file. As a consequence of these changes, participants need to apply a new version of aseXML schema to enable these changes.

### • IN002/22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations

Introduce several new codes and modify existing codes in relation to Scheduled Meter Read Substitution/Estimation **codes** and Special Read No Access **enumerations**. Also move the current codes into enumerations to a non-versioned GasEnumerations file. As a consequence of these changes, participants need to apply a new version of aseXML schema to enable these changes

**Deleted:** Note: This artefact will become final when r45 aseXML schema version is published on AEMO website.¶

**Deleted:** for consultation closing on the 10<sup>th</sup> March 2025.

**Deleted:** <#>r45 consultation¶  
[AEMO | aseXML r45 Draft Schema¶](#)

- **IN005/24 - Inclusion of Contract MDQ in Gas RoLR Transaction Customer and Site Details from FRB to RoLR (T1010)**

Introduce new 'Contract MDQ' field in a T1010 RoLR csv file.

- **IN003/25 - Adoption of aseXML schema ver 46**

- AEMO and East Coast Gas Retail Market participant system adoption of aseXML version r46
- AEMO Technical protocols updated to reflect r46 aseXML schema limited to:
  - o Victorian, NSW/ACT, QLD Gas Interface Protocols (GIPs) and SA Specification Pack Usage Guide.
  - o Exclusion of participant use of new FloorOrLevelType and StreetType Enumerations introduced in r46 aseXML schema
- Participant B2B transactions to communicate only those fields, field lengths and enumerations specified throughout AEMO TPs.

For the avoidance of doubt, Package 1 program of work requires East Coast Gas Market participants to adopt r46 aseXML schema, however, does not require participants to utilise nor implement r46 customer address field length changes, new fields nor new enumerations.

Any future East Coast Gas Market adoption of r46 customer address field length changes, new fields nor new enumerations will require a separate consultation to implement.

## 4. Likely implementation requirements and effects

### 4.1. Implementation

In relation to the implementation date, AEMO put forward a proposal in the first-round consultation (PPC) that a date within **Q2 (April - June) 2026** be the effective date whereby the changes, including the adoption of the new aseXML schema version becomes operational.

No participant submitted any opposing view in the first-round consultation in relation to the above-mentioned implementation date therefore as per section 10 of this IIR, AEMO has recommend the changes described in section 9 of this IIR take effect within **Q2 (April - June) 2026**.

### 4.2. Requirements and effects

#### Requirements

The following underpins the requirements to modify AEMO and Participants system and business processes each of the initiatives.

- See Attachment B for summary of TP changes and detailed of TP changes (tracked changed).
- See Attachment D for details of schema and transaction impacts.

### Impacts to AEMO

In terms of Gas Retail Market interfacing systems, it is anticipated that AEMO will need to make the following incremental IT system changes:

FRC Hub changes:

- AEMO to ensure that transactions are as per r46 aseXML schema version

AEMO will need to make the following incremental IT system changes:

- Modify AEMO's gas gateways (including those managed by CGI, AEMO's outsourced service provider for NSW/ACT and SA) so they have the capability to send and receive transactions in new r46 aseXML schema version
- Modify the aseXML schema transformation engine for Wagga Wagga and Tamworth network to support sending and receiving transactions in new r46 aseXML schema version
- Modify the NSW Low Volume Interface (LVI), so that the system can to support sending and receiving transactions in new r46 aseXML schema version
- Modify the pre-production certification environment responders to r46 aseXML schema version whilst maintaining r40 aseXML schema version (to be deactivated post go-live)
- Modify AEMO Certification/Recertification process in line with TPs
- Complete a recertification process on all impacted transactions.

### Impacts to Retailers and Distributors

It is anticipated that **all Retailers and Distributors** will need to make the following incremental IT system changes:

- Modify gas gateways to send and receive transactions in new r46 aseXML schema version
- Ensure participant systems are compliant to AEMO TPs and therefore updated/new r42 and r46 address elements will not be communicated in B2B Transactions.
- Incorporate the new and updated Scheduled Meter Read substitution and estimation codes and the Special Read No Access enumerations into East Coast Gas Retail Market systems.
- For NSW Retailers and Distributors that participate in the Network Section (NetworkID) owned Jemena Gas Networks (JGN) (NSW) Ltd (collectively known as 'Jemena NSW gas networks') incorporate the new allowable Distribution Tariff 's being "Volume High" and "Volume Boundary" into gas retail market systems.
- Consider whether the changes to the impacted aseXML transactions warrant recertification<sup>6</sup>.
- For Retailers<sup>7</sup>, modify internal processes so that the new 'Contract MDQ' field is included in Gas RoLR Transaction Customer and Site Details from FRB to RoLR transactions (T1010).

For the avoidance of any doubt, participant B2B transactions must communicate only those fields, field lengths and enumerations specified throughout AEMO TPs noting AEMO FRC Hub will technically validate and accept all B2B transactions adhering to r46.

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<sup>6</sup> In relation to recertification, participants should consider the recommendation in section 3.6 of the Gas FRC B2B Connectivity Testing and System Certification in terms of whether participants should request re-certification. Click [here](#) to view the Gas FRC B2B Connectivity Testing and System Certification document.

<sup>7</sup> For Victorian and Queensland, host Retailers are excluded.

## 5. Overall cost and benefits

### 5.1. Retailer and Distributor cost benefit evaluation

Participants have identified benefits outweigh costs to implement Package 1 throughout each consultation phase<sup>8</sup>.

The table below summaries the key benefits

Initiative	Benefits
<b>IN004/22: Proposed Improvements to Network Tariff B2B Notification – NSW/ACT</b>	<ul style="list-style-type: none"> <li>a) Improve efficiency of the operation of the gas market via more accurate retailer quotation and billing.</li> <li>b) Improve price and quality outcomes for consumers by minimising the frustration from bills based on an incorrect distribution tariff which is not readily pre-discoverable before quoting and churn.</li> <li>c) Uplift Distribution Tariff enumerations from the aseXML schema into a non-versioned enumeration file (GasEnumerations) for ease of future updates. This is a broader benefit for both East Coast participants as changes will mitigate the need to deploy a new aseXML schema version which is a costly exercise.</li> </ul>
<b>IN002/22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations</b>	<ul style="list-style-type: none"> <li>a) New and updated Substitution/Estimation codes and enumerations will enable networks and retailers to more efficiently identify issues arising from events outside their control (pandemic and weather) and assist in managing expectations with customers and regulators.</li> <li>b) Providing detailed Substitution and Estimation Usage descriptions will drive consistent use by networks leading to improved customer service and information quality to retailers and clearer understanding of estimation / substitution cause between network and retailers.</li> <li>c) Uplift of Special Read Response Substitution/Estimation enumerations from the aseXML schema into a non-versioned enumeration file (GasEnumerations) for ease of future updates. This change will mitigate the need to deploy a new aseXML schema version which is a costly exercise.</li> </ul>
<b>IN005/24 - Inclusion of Contract MDQ in Gas RoLR Transaction Customer and Site Details from FRB to RoLR (T1010)</b>	<ul style="list-style-type: none"> <li>a) The provision of this specific information will make establishing the supply contracts by the RoLR for the larger customers of the failed east coast retailer substantially easier and saving these customers' higher costed gas.</li> </ul>
<b>IN003/25 – Adoption of aseXML Schema version r46</b>	<ul style="list-style-type: none"> <li>a) Avoidance of future AEMO schema change costs to realise National Customer Address field alignment should East Coast Gas Retail Markets elect to proceed.</li> <li>b) No additional AEMO system change costs to adopt r46</li> <li>c) No additional participant procedural obligations in the adoption of r46</li> </ul>

Section 6.1 of the PPC provide more detailed information about the cost benefit evaluation in relation to IN004/22, IN002/22 and IN005/24. Click [here](#) to view the PPC.

<sup>8</sup> Pre-consultation and PPC.

## 5.2. AEMO cost benefit evaluation

An indicative cost and benefit analysis in terms of the AEMO implementation has been undertaken. Costs are estimated to be \$0.75M to \$2.5M<sup>9</sup>. There are no benefits from an AEMO perspective.

In reference to IN003/25 r46 initiative, avoidance of future AEMO schema change costs to realise National Customer Address field alignment should East Coast Gas Retail Markets elect to proceed.

There are no additional AEMO costs to implement r46 aseXML schema as part of Package 1 programme of works.

## 6. Magnitude of the changes

AEMO has deemed this change to be **material** because of the change to IT systems and the industry coordination effort required to move the r46 aseXML schema version. AEMO's determination of a magnitude of material, is consistent with the 2021 gas B2B changes that also involved an aseXML schema change<sup>10</sup>.

## 7. AEMO'S preliminary assessment of the proposal's compliance with Section 135EB

As part of the first-round consultation (PPC), AEMO put forward the following assessment regarding compliance with section 135EB of the National Gas Rules:

Requirement	AEMO's Preliminary Assessment
<b>1. Consistency with National Gas Law (NGL) and NGR</b>	AEMO's view is that the proposed changes are consistent with the NGL and NGR because the proposed changes improve operational practices and promotes consistency across the jurisdictions.
<b>2. National Gas Objective (NGO)</b>	As outlined in Section 5, it is AEMO's view that this change would facilitate efficient operation of the retail gas market by providing a cost-effective and improve business processes across east coast jurisdictions and is in the long-term interests of consumers.  In relation to newly added initiative (IN003/25) <sup>11</sup> to Package 1 Program of works, the r46 aseXML schema adoption will reduce future AEMO schema implementation costs if and when East Coast Gas Retail Markets decide to adopt a National Customer Address field alignment.
<b>3. Any applicable access arrangements</b>	AEMO's view is that the proposed change is not in conflict with existing Access Arrangements.

Since the first-round consultation concluded, AEMO with the support from the GRCF have determined that scope of work now include the adoption of the r46 version aseXML schema. Noting that inclusion, and the fact no participant submitted any opposing view in the first-round consultation AEMO maintains its original assessment as described above.

<sup>9</sup> For the avoidance of doubt, this includes the new initiative IN003/25 (Adoption of the r46 aseXML schema version) that was added to the Package 1 gas B2B program of works.

<sup>10</sup> Information about the 2021 gas B2B changes can be found [here](#)

<sup>11</sup> For the avoidance of doubt, initiative IN003/25 wasn't included the PPC published on 6 December 2024.



If any participant believes that any of the above AEMO views are contentious, this feedback needs to be included in the Attachment A IIR Response template.

## 8. Consultation forum outcomes

On 6 December 2024, AEMO published on its website the PPC and the proposed documentation changes. The changes described in the PPC required AEMO and participants to modify their IT systems. The system modification involves adopting a new version of the aseXML schema. The scope of these proposed changes included all jurisdictions.

Registered participants and interested stakeholders were invited to make submissions to the PPC consultation, by 10th January 2025. The consultation period was extended to 14 February 2025 because AEMO identified a new initiative involving adopting the r46 version of the aseXML schema.

AEMO received 13<sup>12</sup> responses. A full summary of all participant feedback and AEMO's response to each item is provided in Attachments F. As part of the PPC consultations a GRCF meeting was held on 4th February 2025 to discuss matters related this consultation which included the adoption of the version of the aseXML schema r46 initiative (IN003/25). The meeting pack and the meeting minutes can be found [here](#)

The following is summary of the key findings and outcomes from the PPC consultation:

- In relation to AEMO proposal to implement the changes in Q2 (April to June) 2026, no issues were raised.
- From a Western Australian (WA) gas retail market perspective, the feedback revealed that the benefits do not outweigh costs therefor the scope of works will not include WA. As a result, any TP changes pertaining to inclusion of Western Australian Gas Retail Market have been removed.
- From an East Coast gas retail market perspective, the feedback indicated support for the changes, including the adoption of the r46 aseXML schema version initiative.
- Some participants requested changes to the TPs. Refer to Attachment B for resulting TP updates and inclusions.

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<sup>12</sup> AGL, Alinta, ATCO, Kleenheat, Origin, Synergy, AGN, EA, Jemena, MGN, Red/Lumo, Shell, AusNet\*. \*Note - E-mailed advice which is not in Attachment F.

## Impact & Implementation Report – Recommendation(s)

### 9. Should the proposed procedures be made?

Having considered the outcomes from the first-round consultation described in section 8 of this IIR, AEMO recommends making the changes proposed in Attachment B. This includes a few editorial or otherwise minor changes put forward during the first-round consultation.

### 10. Proposed timelines

Subject to all necessary approvals, AEMO will implement the changes described in this IIR in **Q2 (April - June) 2026**. To achieve this timeline, AEMO proposes the following key milestones:

- IIR issued 3<sup>rd</sup> March 2025
- IIR feedback closes 16 May 2025
- AEMO Notice of Decision issued by 16 June 2025

## Attachment A – IIR Response template

The IIR response template has been attached separately to this document.

There are two sections in the template:

- Section 1 seeks feedback on AEMO's examination of the proposed changes.
- Section 2 seeks feedback on the marked-up changes to the TP described in Attachments B.

Anyone wishing to make a submission to this IIR consultation are to use this response template.

Submissions close **COB Friday 16<sup>th</sup> May 2025** and should be emailed to [grcf@aemo.com.au](mailto:grcf@aemo.com.au)

## Attachment B – Technical Protocol reference documentation

### B.1 – High level summary table of impacted TPs

The table below contains the documents that are being consulted on as part of this IIR. For each initiative, specific procedure updates are detailed below and tracked changed procedures provided in the Attachment B.2 of this artefact.

Ref#	Technical Protocol	Initiative				Jurisdiction			
		IN004/22 (Net Tar)	IN002/22 (Sub/Est)	IN005/24 (RoLR)	IN003/25 (r46)	VIC	QLD	NSW/ACT	SA
1	Participant Build Pack 1 – Process Flow Table of transactions		✓			✓	✓	✓	✓
2	Participant Build Pack 1 - CSV Data Format Specifications		✓	✓		✓	✓	✓	
3	Participant Build Pack 2 – System Interface Definitions		✓			✓	✓	✓	
4	Participant Build Pack 3- B2B System Interface Definitions		✓			✓	✓	✓	
5	Gas Interface Protocol (Victoria)		✓	✓	✓	✓			
6	Gas Interface Protocol (Queensland)		✓	✓	✓		✓		
7	Participant Build Pack 5 - NSW-ACT	✓	✓					✓	
8	Gas Interface Protocol (NSW/ACT)	✓	✓	✓	✓			✓	
9	FRC B2B System Interface Definitions (SA/WA)		✓	✓					✓
10	Specification Pack Usage Guide (SA and WA)	✓	✓	✓	✓				✓
11	Participant Build Pack 6 – NSW-ACT	✓	✓						

Deleted: ✓

Updated versions of AEMO Technical Protocols showing tracked changes between the current version and the proposed changes are attached separately to this document.

Blue underline identifies addition

~~Red-strikeout~~ identifies delete

Please note a comment has been inserted and/or highlighted as per the following colour coding:

- **IN002/22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations**
- **IN004/22: Proposed Improvements to Network Tariff B2B Notification – NSW/ACT**
- **IN005/24 - Inclusion of Contract MDQ in Gas RoLR Transaction Customer and Site Details from FRB to RoLR (T1010)**
- **Updates following Package 1 Gas Retail B2B Changes PPC**
- **IN003/25 – Adoption of r46**

## B.2 – Summary table that describes the changes made to each TP.

The table below contains provides a brief summary of the change made to each TP.

Ref#	Technical Protocol	Current Ver #	Summary of changes
<b>The document below applies to all East Coast Gas Retail Markets</b>			
1	Participant Build Pack 1 – Process Flow Table of transactions	4.0	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>1. In "Element tab" in row 103 Estimation/Substitution Reason Code - remove all valid codes and add the text "ref to 'Sched&amp;Special Codes&amp;Enum' tab"</li> <li>2. In "Element tab" in row 248, 'Reason for No Access by Meter Reader' - remove all valid codes and add the text "ref to 'Sched&amp;Special Codes&amp;Enum' tab"</li> <li>3. Create new tab in the spreadsheet called 'Sched&amp;Special Codes&amp;Enum'</li> <li>4. In 'Address Elements' tab, insert new clarification the Address elements specified are the only aseXML address fields allowable in Retail Gas Markets.</li> <li>5. In new 'Sched&amp;Special Codes&amp;Enum' tab, update the following Enumerations in Column B: <ul style="list-style-type: none"> <li>• Unable to Locate Premises</li> <li>• Vacant Premises</li> </ul> </li> <li>6. In new 'Sched&amp;Special Codes&amp;Enum' tab, update the following Usage in Column C: <ul style="list-style-type: none"> <li>• Code 8 – The <del>End-User</del> customer refused to provide access when requested.</li> <li>• Code 10 – Removal of unnecessary spaces.</li> <li>• Code 27 - Unable to locate the address/<del>premise</del> premises. (This code triggers follow up site processes)</li> </ul> </li> </ol>

Ref#	Technical Protocol	Current Ver #	Summary of changes
			<p>7. In 'Address Elements' tab, update the 'If Code Valid Values are' with and for the following Elements:</p> <ul style="list-style-type: none"> <li>FloorOrLevelType - The following FloorOrLevelType Enumerations are excluded from use in Gas Retail Markets: Lower Level – LL, Penthouse – PTHS, Platform – PLF, Podium – PDM</li> </ul> <p>8. In 'Process Flow Tables' tab and in reference to 'Data Elements' (column Q), for Transaction #312 insert 'Address'</p>
<b>The documents below applies to Vic, Qld and NSW/ACT</b>			
2	Participant Build Pack 1 - CSV Data Format Specifications	3.8	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>In relation to section 7 (Data Dictionary) for the CSV Data Element Name 'Estimation_Substitution_Reason_Code' – Remove Allowed values and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol> <p>The following changes relate to IN005/24 (RoLR):</p> <ol style="list-style-type: none"> <li>In relation to section 6.19 (Customer and Site Details from FRB to RoLR (T1010)) in Transaction 1010 'Customer and Site Details from FRB to RoLR', add new field: <ul style="list-style-type: none"> <li>Field Name: Contract MDQ</li> <li>Mandatory/Optional: O</li> <li>Comment: Required if available</li> </ul> </li> <li>In relation to section 7 (Data Dictionary) in Data Dictionary, add new field: <ul style="list-style-type: none"> <li>CSV Data Element Name: Contract MDQ</li> <li>Attribute/Format: Numeric</li> <li>Length/Decimal Places: 11,2</li> <li>Allowed Values/Comments: The agreed Maximum Daily Quantity of gas in Giga Joules (GJ) the Retailer needs to make available for sale to a customer, and the maximum quantity a customer can purchase per day at the customer's contracted rates. In GJ</li> </ul> </li> </ol> <p>The following changes relate to PPC responses:</p> <ol style="list-style-type: none"> <li>In Section 2.1 removal of duplicate bullet point under Figure 1.1</li> </ol>
3	Participant Build Pack 2 – System Interface Definitions	3.6	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>In relation to section A2. (CSV Elements) for the CSV Column Designator 'Estimation_Substitution_Reason_Code' – Remove Allowed values and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol>
4	Participant Build Pack 3- B2B System Interface Definitions	4.0	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>In relation to section A1. (aseXML Data Elements) for the aseXML Element Name 'ReasonForNoAccess'- Remove Allowed Value (i.e. enumerations) and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol>

Ref#	Technical Protocol	Current Ver #	Summary of changes
			<ol style="list-style-type: none"> <li>In relation to A2. (CSV Elements) for the CSV Element 'Estimation_Substitution_Reason_Code - Remove Allowed Value (i.e. enumerations) and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol>
<b>The document below applies to Vic</b>			
5	Gas Interface Protocol (Victoria)	29.0	<ol style="list-style-type: none"> <li>Update version number for Package 1 Gas Retail B2B Change consultation changed artefacts</li> <li>Update the aseXML schema version to r46</li> <li>Update the GasEnumerations.xsd version to Version 2.0</li> </ol>
<b>The document below applies to QLD</b>			
6	Gas Interface Protocol (Queensland)	28.0	<ol style="list-style-type: none"> <li>Update version number for Package 1 Gas Retail B2B Change consultation changed artefacts</li> <li>Update the aseXML schema version to r46</li> <li>Update the GasEnumerations.xsd version to Version 2.0</li> </ol>
<b>The documents below applies to NSW/ACT</b>			
7	Participant Build Pack 5 - NSW-ACT	9.0	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>In relation to section 5.1 (Meter Reads – Energy and Consumption (Non Daily Read meters) (DBs to RBs)) for the Element 'Estimation_Substitution_Reason_Code' – Remove reference to 'For NSW/ACT, this may include: 18 Customer bad read'</li> <li>In relation to Section 5.2 (Meter Reads – Energy and Consumption (Non Daily) (DB to AEMO)) for the Element 'Estimation_Substitution_Reason_Code' refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> <li>In relation to Section 6.1.2.1 MeterDataNotification and for the Element 'Estimation_Substitution_Reason_Code' refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions</li> <li>In relation to Section 6.2.1.1 MeterDataNotification and for the Element 'Estimation_Substitution_Reason_Code' refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions</li> <li>In relation to section 12. Appendix – F (Table of Transactions – Elements) for the Element 'Estimation/Substitution Reason Code - Remove 'If Code Valid Values are:' Value (i.e. enumerations) and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol> <p>The following change relates to IN004/22 (Network Tariff):</p> <ol style="list-style-type: none"> <li>In relation to Appendix D (NSW/ACT Data Dictionary – ASEXML Elements) include reference to existing aseXML field 'DistributionTariff': <ul style="list-style-type: none"> <li>.aseXML Element Name: DistributionTariff</li> <li>Table of Transactions Element Name: Distribution Tariff</li> <li>Description: Part of the retailer request for standing data from the distributor</li> </ul> </li> </ol>

Ref#	Technical Protocol	Current Ver #	Summary of changes
			<ul style="list-style-type: none"> <li>Attributes/Format: String</li> <li>Length/Decimal Places: 20</li> <li>Allowed Values/Comments:                             <ul style="list-style-type: none"> <li>"Volume", "Demand"</li> </ul> </li> </ul> <p>For NSW/ACT only, additional values:</p> <ul style="list-style-type: none"> <li>"Volume High" – Customer with consumption of 200 GJ per annum or more</li> <li>"Volume Boundary" – customer with Volume Boundary gas meter</li> </ul> <p>Note1 - The inclusion of new row in this table is artefact remediation only. Only the 2 new NSW/ACT additional values are subject to schema change.</p>
8	Gas Interface Protocol (NSW/ACT)	16.0	<ol style="list-style-type: none"> <li>Update version number for Package 1 Gas Retail B2B Change consultation changed artefacts</li> <li>Update the aseXML schema version to r46</li> <li>Update the GasEnumerations.xsd version to Version 2.0</li> </ol>
<b>The documents below applies to SA</b>			
9	FRC B2B System Interface Definitions (SA/WA)	5.3	<p>The following changes relate to IN002/22 (Sub/Est):</p> <ol style="list-style-type: none"> <li>In relation to Appendix A. Data Dictionary, aseXML Data Elements aseXML Element Name 'ReasonForNoAccess'- Remove Allowed Value (i.e. enumerations) and for SA insert 'For SA Only: Refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions'.</li> <li>In relation to Appendix A. Data Dictionary, CSV Data Elements for CSV Element 'Estimation_Substitution_Reason_Code - Remove Allowed Value (i.e. enumerations) and for SA insert 'For SA only: Refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> <li>In relation to Appendix A. Data Dictionary, CSV Data Elements for CSV Element 'CSVCustomer/CSVData', remove error message and replace with '4.6.2.1'</li> </ol> <p>The following changes relate to IN005/24 (RoLR):</p> <ol style="list-style-type: none"> <li>This is SA only change. In relation to appendix A (CSV Data Elements) In Data Dictionary, add new field:                             <ul style="list-style-type: none"> <li>CSV Field Name: Contract MDQ</li> <li>Description: The agreed Maximum Daily Quantity of gas in Giga Joules (GJ) the Retailer needs to make available for sale to a customer, and the maximum quantity a customer can purchase per day at the customer's contracted rates. In GJ</li> <li>Attribute/Format: Numeric</li> <li>Logical Length/Decimal Length: 11,2</li> </ul> </li> <li>Allowed Values: The agreed Maximum Daily Quantity of gas in Giga Joules (GJ) the Retailer needs to make available for sale to a customer, and the maximum quantity a customer can purchase per day at the customer's contracted rates. This is SA only change. In relation to</li> </ol>



Ref#	Technical Protocol	Current Ver #	Summary of changes
			<p>appendix G (RoLR Process (SA only)) for transaction 1010 'Customer and Site Details from FRB to RoLR', add new field:</p> <ul style="list-style-type: none"> <li>Field Name: Contract MDQ</li> <li>Mandatory/Optional: O</li> <li>Comment: Required if available</li> </ul>
10	Specification Pack Usage Guide (SA and WA)	8.9	<ol style="list-style-type: none"> <li>Update version number for Package 1 Gas Retail B2B Change consultation changed artefacts</li> <li>Update the aseXML schema version to r46</li> <li>Update the GasEnumerations.xsd version to Version 2.0</li> </ol> <p>Note: WA remains on r40.</p>
11	Participant Build Pack 6 – NSW-ACT	7.0	<p>The following changes relate to IN002/22 (Sub/Est).</p> <ol style="list-style-type: none"> <li>In relation to section 5.1 (Meter Reads – Energy and Consumption (Non Daily Read meters)) for the Element 'Estimation_Substitution_Reason_Code' – Remove reference to 'If the network is equal to "NSWCR" or "Country", New Code 18 Customer bad read will not be provided' and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> <li>In relation to section 5.2 (Meter Reads – Energy and Consumption (Non Daily Read meters) (DB and AEMO)) for the Element 'Estimation_Substitution_Reason_Code' refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> <li>In relation to section 6.2.1 Provision of Energy Flow Data, for the Element 'Estimation_Substitution_Reason_Code' refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> <li>In relation to Appendix F (Table of Transactions - Elements) and in relation to Element 'Estimation/Substitution Reason Code' delete existing 'If Code Valid Values are:' and refer to new 'Sched&amp;Special Codes&amp;Enum' tab in PBP1 - Table of Transactions.</li> </ol>



## Attachment C – Schema Manifest file r41 – r45

In order for East Coast Gas Markets to adopt r46 aseXML schema, East Coast Gas Market participants must adopt all historically created aseXML schema versions.

Schema Manifest file r41 – r45 ([Final](#)) has been attached separately to this document. ▼

See also Attachment D for details of schema and transaction impacts with each aseXML schema change.

**Deleted:** draft

**Deleted:** This artefact will become final when r45 aseXML schema version is published on AEMO website.

## Attachment D – Schema & Transaction Impact Analysis

The following provides an overview of schema and transaction impacts across aseXML schemas r40 and r46 aseXML schema versions.

In reference to transactions impacted:

- No B2M transactions are impacted.
- Given impacted transactions are B2B in nature, Participants should undertake their own due diligence of all retail market technical protocol artefacts to determine the accuracy of this list.
- Participants are expected to have configured their gateways/systems as per AEMO Technical Protocols.

### r41

No known East Coast Gas Retail Market impacts.

### r42

- 'LocationDescriptor' (LD) field length updated from 30 to 200 in ClientInformation r42.xsd. AEMO Technical Protocols shall remain at LocationDescriptor Field Length = 30 **and will NOT be updated.**
- New address fields created: HouseNumberTo, HouseNumberToSuffix, SectionNumber, DPNumber, GNAFPID.
  - New address fields added to existing AustralianAddress, AustralianPartialAddress, AustralianStructuredAddressPartialComponents and AustralianStructuredAddressComponents.
  - New address fields **will not be included in AEMO Technical Protocols and** 'Participant Build Pack 1 Table of Transactions'/'Address Element' tab now includes clarification how to treat these new address fields.

### aseXML Transactions

[Note: Whilst there are no known r42 transaction impacts, the following provides for LocationDescriptor could be Optionally populated in Gas Market Transactions where:](#)

- ['LocationDescriptor' is specified as an Optional aseXML field within 'Address', 'SiteAddress', 'PostalAddress' or 'LifeSupportPostalAddress' aseXML elements](#)

Transaction Number	Transaction Group	Field or Element (Mandatory or Optional)
280	NMIDiscoveryRequest/ NMISstandingDataRequest	Address
281, 284	NMIDiscoveryResponse / NMISstandingDataResponse	Address
87, 101, 151, 310, 312, 314, 316, 318, 320	ServiceOrderRequest	Service Order / Address
87A, 92, 93, 101A, 104, 108, 125, 151A, 154, 157, 310A, 311, 312A, 313, 314A, 315, 316A, 317, 318A, 319, 320A, 321	ServiceOrderResponse	Address
70	CustomerDetailsNotification	PostalAddress

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80, 81	LifeSupportNotification	SiteAddress, LifeSupportPostalAddress
68	Supply Point Information	Address
69	Address Information Change from DB	Address

**CSV Transactions**

Note: Whilst there are no known r42 transaction impacts, the following provides for LocationDescriptor could be Optionally populated in Gas Market Transactions where:

- 'LocationDescriptor' field is explicitly stated as an Optional field in CSV files

Transaction Number	Transaction Description	Field affected
282	MIRN Discovery Request	Address
283	MIRN Discovery Response	Address
299	Complete MIRN listing	LocationDescriptor
356	Obtain CFRO for MRM and/or SDR Service Order Requests	SiteAddress
900	Customer and Site Details (Monthly – Non Host update) (RoLR)	LocationDescriptor
970	Customer and Site Details (RoLR)	LocationDescriptor
1010	Customer and Site Details from FRB to RoLR	LocationDescriptor
1050	List of Cancelled Service Orders	LocationDescriptor

**r43**

No known East Coast Gas Retail Market impacts.

**r44**

No known East Coast Gas Retail Market impacts.

**r45**

- Special Read Response No Access enumerations uplifted from the aseXML schema into a non-versioned enumeration file (GasEnumerations)
- Special Read Response No Access enumerations updated and created
- DistributionTariff enumerations uplifted from the aseXML schema into a non-versioned enumeration file (GasEnumerations)
- Two new DistributionTariff enumerations created

Transaction #	Transaction Name	Delivery method	GMI
6	<a href="#">Special Read Request No Access Advice</a>	aseXML	<a href="#">N002/22: Gas Scheduled Read Est Sub Codes and Special Read No Access Enumerations</a>
T281	<a href="#">NMIDiscoveryResponse</a>	aseXML	<a href="#">N004/22 (NSW/ACT)- Proposed Improvements to Network Tariff B2B Notification</a>
T284	<a href="#">NMISstandingDataResponse</a>	aseXML	<a href="#">N004/22 (NSW/ACT)- Proposed Improvements to Network Tariff B2B Notification</a>

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**Package 1 & IN002/22 - Gas Scheduled Read Est Sub Codes & Special Read No Access Enumerations**

Transaction #	Transaction Type	Transaction Name	Delivery method
6	<a href="#">MeterDataNotification</a>	Special Read Request No Access Advice	aseXML
9	<a href="#">MeterDataNotification</a>	Energy Flow for Special Read (Not Customer Transfer)	aseXML (CSV file embedded)
13	<a href="#">MeterDataNotification</a>	Energy Flow for Special Read for a Customer Transfer	aseXML (CSV file embedded)
17	<a href="#">MeterDataNotification</a>	Energy Flow for Disconnection Read	aseXML (CSV file embedded)
31A	<a href="#">MeterDataNotification</a>	Energy Flow for Customer Own Read	aseXML (CSV file embedded)
41	<a href="#">MeterDataNotification</a>	Energy Flow for Schedule or Special Read	aseXML (CSV file embedded)
46	<a href="#">MeterDataNotification</a>	Energy History Response	CSV
50	<a href="#">MeterDataNotification</a>	Energy Flow for missing reads	aseXML (CSV file embedded)
51	<a href="#">MeterDataNotification</a>	Energy Flow for an Estimate Read	aseXML (CSV file embedded)
53	<a href="#">MeterDataNotification</a>	Energy Flow for a Substituted Read	aseXML (CSV file embedded)
246	<a href="#">MeterDataNotification</a>	Energy Flow Adjustment for RB	aseXML (CSV file embedded)
995	<a href="#">MeterDataNotification</a>	Estimated Energy Flow which is for 2nd Tier Site that has been transferred as a result of a RoLR event	aseXML (CSV file embedded)
2310	<a href="#">MeterDataNotification</a>	Non-daily Energy flow	aseXML (CSV file embedded)

**Package 1 & IN005/24 - Inclusion of Contract MDQ in Gas RoLR Transaction Customer and Site Details from FRB to RoLR (T1010)**

Trans#	Transaction Name	Delivery method
T1010	Customer and Site Details from FRB to RoLR	CSV

Deleted: IN004/22 (NSW/ACT)- Proposed Improvements to Network Tariff B2B Notification Transaction #

**r46**

- MaxLength Value for AustralianBuildingOrPropertyName from 30 to 50
- MaxLength Value for AustralianFloorOrLevelType from 2 to 4
- MaxLength Value for AustralianStreetName from 30 to 45
- x1 new field (BuildingOrPropertyName2)
- x4 new FloorOrLevelType Enumerations (Lower Level – LL, Penthouse – PTHS, Platform – PLF, Podium – PDM)

**Note:**

- No known East Coast Gas Retail Market transaction impacts.
- AEMO Technical Protocols shall retain existing field lengths and will NOT be updated.

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-2024 Package 1  
Gas Retail Market B2B changes

- [New enumerations excluded from use in AEMO Technical Protocols](#)
- [New address field will not be included in AEMO Technical Protocols](#)

**For the avoidance of doubt, Package 1 program of work requires East Coast Gas Market participants to adopt r46 aseXML schema, however, does not require participants to utilise nor implement r46 customer address field length changes, new fields nor new enumerations.**



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Australian Energy Market Operator Ltd ABN 94 072 010 327

## Attachment E – A National Customer Address Framework

### Background

- **In 2017:** The Australian Standards considered it sufficiently significant to implement customer address field updates for inclusion in AS4590.1:2017
- **2023 - 2025:** Amongst other items, the NEM have completed consultation on an anticipated need to align aseXML to AS4590.1:2017 targeting high priority customer address fields updates and clarifications
  - o [AEMO | 2024 Metering Services Review Package 1](#)
  - o [AEMO | B2B Procedures v3.9](#)
- **2024:** Gas Retail Markets did not consider sufficient need to line up with the NEM/AS4590.1:2017 resulting in GMI IN001-24 removed from Package 1 Gas Retail B2B Changes Consultation
- **2024:** In creation of r41 – r44 Schema Manifest file for PPC, AEMO Retail Reform team detected r42 LocationDescriptor field length change resulting in now necessary AEMO Package 1 system changes
- **Current day:** As a result of r42 aseXML schema updates and subsequent necessary AEMO gas system change, as per IN003/25 the inclusion of r46 aseXML schema in Package 1 IIR aims to avoid future AEMO schema implementation costs to realise a National Customer Address field alignment with NEM and AS4590.1:2017 should this be required by East Coast Gas Retail Markets.



## Attachment F – PPC responses

Package 1 PPC responses has been attached separately to this document.