



PARTICIPANT BUILD PACK 6: NSW (WAGGA WAGGA & TAMWORTH)

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Australian Energy Market Operator Ltd ABN 94 072 010 327

www.aemo.com.au info@aemo.com.au

NEW SOUTH WALES QUEENSLAND SOUTH AUSTRALIA VICTORIA AUSTRALIAN CAPITAL TERRITORY TASMANIA WESTERN AUSTRALIA

Australian Energy Market Operator Ltd ABN 94 072 010 327

www.aemo.com.au info@aemo.com.au

NE Australian Energy Market Operator Ltd ABN 94 072 010 327

www.aemo.com.au info@aemo.com.au

NEW SOUTH WALES QUEENSLAND SOUTH AUSTRALIA VICTORIA AUSTRALIAN CAPITAL TERRITORY TASMANIA

Document Approval and Acceptance

AEMO Approval

This document has been prepared by:

NAME:	DANNY MCGOWAN	
Position:	Principal Regulatory Analyst, Market Change	
Signature:		Date:

This document has been reviewed by:

NAME:	MICHELLE NORRIS	
Position:	Manager, Market Change	
Signature:		Date:

This document has been reviewed and conforms to AEMO's regulatory obligations:

NAME:	MICHELLE NORRIS	
Position:	Manager, Market Change	
Signature:		Date:

Version History

Version	Date	Author(s)	Section	Change
1.0	02/05/2016	Wayne Lee		IN004/15 – NSW/ACT RMP and GIP changes for Wagga Wagga and Tamworth IN018/15 NSW-ACT RMP and GIP changes or NARGP As Built consultation
2.0	04/12/2017	D.McGowan		IN026/16 and includes IN017/16 and IN027/16
3.0	10/02/2020	D.McGowan		Changes as described in IN006/17 (SA RMP Harmonisation). These include: <ul style="list-style-type: none"> Update section 5.11 (Complete MIRN Listing (Ref 299) as now defined in AEMO Spec Pack, FRC B2B System Interface Definitions Update section 6.4.1 to include new SA RMP clause reference)
4.0	29/11/2021	D. McGowan and A. Pathy	2.1	IN003/20 - Adoption of the two B2B Life Support (LS) transactions including adopting a version of the aseXML schema that contain these LS transactions. IN011/20 – Adoption of aseXML CDN and CDR IN018/20 – Residual bundle release changes

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Executive Summary

This document is the Participant Build Pack 6 – Business to Business¹ (B2B) and Business to Market Operator² (B2M) system Interface Definitions for delivery of the IT System Interfaces to support the operation of the NSW/ACT Gas Retail Market covering Wagga Wagga and environs, and Tamworth networks.

¹ B2B means User to Network Operator and vice versa

² B2M means User/Network Operator to Market Operator and vice versa.

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1. Introduction

1.1 Background

The New South Wales (NSW) and Australian Capital Territory (ACT) have established a Gas Interface Protocol (GIP). The GIP details the technical standards and business processes that enables retail and Distributor businesses and AEMO to transfer information between Participant's systems. This includes customer meter readings, service orders and customer transfer transactions.

The GIP comprises a set of artefacts know as Participant Build Packs, including:

- Participant Build Pack 1 details the industry agreed business processes.
- Participant Build Pack 2 describes transactions between participants and AEMO; and
- Participant Build Pack 3 describes transactions between participants and the system architecture.
- Participant Build Pack 5 describes transactions between participants and AEMO, and participants to participants for NSW/ACT excluding Wagga Wagga and enviros, and Tamworth networks.
- Specification Pack FRC B2B System Interface Definitions
- Specification Pack SAWA Gas Retail Market Systems Interface Control Document
- Participant Build Pack 6.

Usage of Participant Build Pack 6 in relation to the other GIP artefacts is provided in the GIP and is summarised in section 2.1 of this document.

1.2 Purpose

The purpose of this document is to define the behaviour of the business and IT systems as viewed from the outside. The NSW/ACT Retail Market uses all the interfaces/transactions whether via the FRC HUB, file transfer, e-mail, phone described in Participant Build Pack 1, 2 and 3 as used in Victoria unless otherwise specified in this document.

For the avoidance of doubt Participant Build Pack 1, 2 and 3 as used in Victoria, and Participant Build Pack 5 which describes the deletions, modifications and additions to Build Packs 1, 2 and 3 all form part of the GIP and define the behaviour of the business and IT systems in the NSW/ACT Retail Market.

1.3 Audience

The document has been written for business and IT personnel within the Market Participants and Distributors as well as AEMO. It is expected that the audience will have a familiarity with the overall business endeavour of Gas FRC in NSW/ACT and with the artefacts listed in the Related Documents section of this document.

1.4 Related Documents

There are a number of related documents or artefacts that have been issued as part of Participant Build Packs 1, 2 and 3 (under the context of Participant Build Pack 5) and the SA specification pack and should be read in conjunction with this document. The table below defines the documents and the versions used to generate this PBP.

Ref	Artefact Name	Version
1.	Retail Market Procedures (NSW/ACT)	Current version as published.
2.	Participant Build Pack 1- Process Maps	Current version as published in the GIP
3.	Participant Build Pack 1- Transaction Definition Table	Current version as published in the GIP
4.	Participant Build Pack 1- CSV Data Element Definition	Current version as published in the GIP
5.	Participant Build Pack 2 - Glossary	Current version as published in the GIP
6.	Participant Build Pack 2 - Usage Guidelines	Current version as published in the GIP
7.	Participant Build Pack 2 – Interface Definitions	Current version as published in the GIP
8.	Participant Build Pack 3 – System Specification	Current version as published in the GIP
9.	Participant Build Pack 3 – FRC B2B System Architecture	Current version as published in the GIP
10.	Participant Build Pack 3 - Interface Definitions	Current version as published in the GIP
11.	User Guide to MIBB reports	Current version as published in the Market Information Bulletin Board at https://vicgas.prod.marketnet.net.au/Public_Dir/Documents
12.	Guidelines for Development of a Standard for Energy Transactions in XML (aseXML)	Current version as published at http://www.aemo.com.au/aseXML/index.htm
13.	FRC Hub id table	Current version as published on AEMO website
14.	FRC B2B System Interface Definitions	Current version as published in the Specification Pack Usage guidelines.
15.	FRC B2M - B2B HUB System Specifications	Current version as published in the Specification Pack Usage guidelines.
16.	FRC B2M - B2B HUB System Architecture	Current version as published in the Specification Pack Usage guidelines.
17.	FRC CSV Data Format Specification	Current version as published in the Specification Pack Usage guidelines.
18.	Connectivity Testing and Technical Certification	Current version as published in the Specification Pack Usage guidelines.
19.	Readiness Criteria	Current version as published in the Specification Pack Usage guidelines.
20.	B2B Service Order Specifications (Part 1)	Current version as published in the Specification Pack Usage guidelines.

Ref	Artefact Name	Version
21.	B2B Service Order Specifications (Part 2)	Current version as published in the Specification Pack Usage guidelines.
22.	Specification Pack Usage Guidelines	Current version as published in the Specification Pack Usage guidelines.
23.	Interface Control Document	Current version as published in the Specification Pack Usage guidelines.
24.	FRC B2M Process Flow and Sequence Diagrams	Current version as published in the Information Pack Usage guidelines.
25.	FRC B2B Process Flows For the SA and WA Gas Retail Markets'	Current version as published in the Information Pack Usage guidelines.

- Note for Participant Build Packs 1, 2 and 3, any reference to Master MIBB Guide should be taken to mean "User Guide to MIBB reports".

1.5 Definitions and Acronyms

All terms related to this document are defined in the Ref. [5].

Please note that acronyms MIRN (Meter Installation Registration Number) and NMI (National Meter Identifier) are used in this document interchangeably. In relation to reference in Ref. [4] [7] [10], some terms may not be applicable for the NSW/ACT Retail Gas Market.

1.6 Overview and Structure

This document is organised in a number of sections as described below:

Section	Description
Overview of Interfaces	This section describes the relationship between the various interfaces.
Transaction Changes	This section outlines the transactions used, not used, modified or new for NSW/ACT – Wagga Wagga and Tamworth networks.
Transactions to be modified for NSW/ACT	This section describes the transactions modified in NSW/ACT – Wagga Wagga and Tamworth networks.
New for NSW/ACT Retail Market	This section describes new transactions used in NSW/ACT retail market – Wagga Wagga and Tamworth networks.
Appendices	New table of transactions Existing Data Elements which will be used for NSW/ACT - Wagga Wagga and Tamworth networks specific details

2. Overview of Interfaces

2.1 Overview

This document focuses on the interfaces to be used in the B2B, B2M and M2B transactions for NSW/ACT Retail Market as applies to the Wagga Wagga & Tamworth areas. The interfaces focus on business and application logic. The interfaces are grouped based on the transaction categorisation defined in the Transaction Definition Table.

Every group of specific interfaces has one or more activity diagrams associated with it. The activity diagrams are based on the NSW/ACT Process Flow diagrams with noted variations of Wagga Wagga & Tamworth areas, and the agreed SA Process flows under the SA Build documentation and interfaces as detailed in the GIP. These process flows are presented as UML activity diagrams. The UML sequence diagrams representing the same processes with relevant aseXML transactions accompany the activity diagrams.

A sequence diagram has a table associated with them. Each row in this table describes correlation between the process flow and the corresponding aseXML transaction.

As general guidance for users of this document:

- Wagga Wagga & Tamworth Distributors build to SA Technical Documentation (as denoted in Participant Build Pack 6) for transactions to/from APA/AGN, *ie r29 of the aseXML schema*. In this context Participant Build Pack 6 highlights the applicable parts of the Specification Pack FRC B2B System Interface Definitions (South Australia) and the Interface Control Document (South Australia).
- AEMO / Retailers (and Distributors if nominated) build to Participant Build Pack 5 (and modifications as noted in Participant Build Pack 6), *ie r34 of the aseXML schema*. In this context, Participant Build Pack 6 describes the deletions, modifications and additions to Build Pack 5, (and by extension Build Packs 1, 2 and 3 as used in Victoria).
- AEMO via FRC HUB will undertake a transform process for any aseXML transactions to or from a Distributor gateway built on the SA Technical Documentation.

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2.2 Scope

This document identifies the transactions from the Participant Build Pack 1- Transaction Definition Table are to be used in the NSW/ACT Retail Market. This document describes all the aseXML, FTP and MIBB transactions as specified in the "Method" column in the Transaction Definition Table. This document also includes any transactions that will be communicated via e-mail or fax

3. Transactions Changes.

As a general implementation of the NSW/ACT Retail Market for networks of “NSWCR” and “COUNTRY”, participants may wholly interact with the market with transactions specified by:

- i. The SA Gas Retail Market equivalent build pack, including the aseXML schema version applicable for that jurisdiction, or
- ii. The NSW/ACT Gas Retail Market Participant Build pack 5, including the aseXML schema version applicable for that jurisdiction.

The B2B hub will provide the service to transform equivalent transactions where nominated by the participant. In this case, all B2B Hub transactions between that participant company/GB0 ID and another participant gateway operating on the alternative build pack will have the following applied:

- aseXML version number in each transaction will be changed to the appropriate version.
- Transaction data type versions where specified will be updated to the appropriate value if changed between schema versions.

3.1 Transactions required for NSW/ACT (Wagga Wagga and Tamworth networks only) either “modified”, “not modified” or “not required”

3.1.1 B2B

The following table shows the B2B transactions, from the Table of Transactions (Participants Build Pack 1) which are used in the NSW/ACT Retail Market (networks of “NSWCR” and “COUNTRY”) either “modified” or “not modified”.

Note: The reference “C” in the Distributor Impact column means the data elements or the rule that determines whether the data element is mandatory or otherwise differs from those prescribed in the Interface Definition (For the SA and WA Gas Retail Markets) as a Distributor operating against the SA Gas Retail Market equivalent build pack, including the aseXML schema version applicable for that jurisdiction.

Note: The reference “C” in the User Impact column means the data elements or the rule that determines whether the data element is mandatory or otherwise differs from those prescribed in Participant Build Pack 5 as a User (and Distributor if so nominated) operating against the NSW/ACT Gas Retail Market Participant Build pack 5, including the aseXML schema version applicable for that jurisdiction.

Note: The reference “T” in the AEMO Transform Type column means a transaction specific transformation (in addition to generic aseXML version transformation) must occur where an aseXML message is sent to or from a Distributor operating against the SA Gas Retail Market equivalent build pack, including the aseXML schema version applicable for that jurisdiction (the reference “V” denotes only generic aseXML version transformation is required).

Trx Ref No	Transaction Type <i>Note: The description used to describe the transaction type in this table are those used in PBP1. Whilst the description may make reference to 2nd Tier, for NSW/ACT reference to 2nd is not applicable. NSW/ACT is a global settlement market and therefore 2nd Tier arrangements don't apply.</i>	Distributor Impact (variation from SA System Interface Definition) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	Business Process Change (notable variation from either PBP5 or SA System Interface Definition) C= Change	AseXML transaction (if applicable)	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
3	Special Read Request	NC	T	NC	C	SpecialReadRequest	Remove MeterSerialNumber during transform. See section 5.6.1 for further details.
3A	Special Read Request Response	NC	V	NC	n/a	SpecialReadResponse	
6	Special Read Request No Access advice	NC	V	NC	n/a	SpecialReadResponse	
9	Energy Flow for Special Read (note: - Not a Customer Transfer Request)	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
9A	Energy Flow for Special Read (note: - Not a Customer Transfer Request) Response	NC	V	NC	n/a	MeterDataResponse	
12	Account creation transaction.	NC	T	C	n/a	AccountCreationNotification	Xsi type change during transform. Use of Read schedule fields, not next scheduled read. Jemena specific fields not provided. See section 5.5 for further details.
13	Energy Flow for Special Read for a Customer Transfer	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.

13A	Energy Flow for Special Read for a Customer Transfer Response	NC	V	NC	n/a	MeterDataResponse	
15	Disconnection Read	NC	V	NC	n/a	MeterReadInputNotification	
17	Energy Flow for Disconnection Read	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
17A	Energy Flow for Disconnection Read Response	NC	V	NC	n/a	MeterDataResponse	
31	Customers Own Read Provided By Retailer	NR	n/a	NR	n/a	MeterReadInputNotification	
31A	Energy Flow for Customer Own Read	NR	n/a	NR	n/a	MeterDataNotification	
31B	Energy Flow for Customer Own Read Response	NR	n/a	NR	n/a	MeterDataResponse	
41	Energy Flow for Schedule or Special Read	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
41A	Energy Flow for Schedule or Special Read Response	NC	V	NC	n/a	MeterDataResponse	
45	Energy History Request	NC	n/a	NC	n/a	N/A	
46	Energy History Response	NC	n/a	NC	n/a	N/A	
49	User requesting missing meter reading data	NC	V	NC	n/a	MeterDataMissingNotification	
50	Energy Flow for Missing Reads	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor.

							Variance of extra fields for User. See section 5.1 for further details.
50A	Energy Flow for Missing Reads Response	NC	V	NC	n/a	MeterDataResponse	
51	Energy Flow for an Estimate Read	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
51A	Energy Flow for an Estimate Read Response	NC	V	NC	n/a	MeterDataResponse	
53	Energy Flow for a Substituted Read	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
53A	Energy Flow for a Substituted Read Response	NC	V	NC	n/a	MeterDataResponse	
66	Meter Site Access Information Change from RB	NC	T	C	n/a	AmendMeterRouteDetails	Changed Xsi type during transform. MeterSerialNumber, NextScheduledReadDate not required for COUNTRY, NSWCR. See section 5.15.1 for further details.
67	Meter Site Access Information Change from DB	NC	T	C	n/a	AmendMeterRouteDetails	Changed Xsi type during transform. MeterSerialNumber, NextScheduledReadDate not required for COUNTRY, NSWCR. See section 5.15.1 for further details.
68	Supply Point Information	NC	V	NC	n/a	AmendMeterRouteDetails	
69	Address Information Change from DB	NC	V	NC	n/a	AmendMeterRouteDetails	

70	Amend Customer Details	NC	V	CNC	n/a	CustomerDetailsNotific ation	Life support flag not used for COUNTRY, NSW/CR. See section 5.16.1 for further details.
71	Amend Customer Details (six monthly refresh)	NC	n/a	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
72	Customer Details Request from DB	NC	V	NC	n/a	CustomerDetailsReque st	
74	Annual Meter Reading Schedule	NC	n/a	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
75	Meter Reading Route Change	NC	n/a	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
87	Meter Fix request "A" or "B" type.	NC	T	C	NC	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
87A	Meter Fix request "A" or "B" type Response	NC	V	NC	n/a	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
92	Meter Fix completed	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
93	No Access to complete Meter Fix	NC	V	NC	n/a	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
101	Meter Change Request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further

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							details.
101A	Meter Change Request Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
104	No Access to complete Meter Change	NC	V	NC	n/a	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
108	Meter Change Completed	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
120	Request Basic Meter Upgrade	NC	V	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
121	Quote for Upgrade of Basic Meter	NC	V	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
122	Accept quote for Basic Meter Upgrade	NC	V	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW
125	Meter Upgrade Completed RB Advice	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
127	Request Interval downgrade	NR	n/a	NR	n/a	N/A	
128	Quote for Downgrade of Interval	NR	n/a	NR	n/a	N/A	
129	Accept quote for Interval Downgrade	NR	n/a	NR	n/a	N/A	
130	Meter Downgrade Completed RB Advice	NR	n/a	NR	n/a	N/A	
136	Time Expired Meters Notification	NC	n/a	NC	n/a	N/A	

151	Meter Removal Request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
151A	Meter Removal Request Response	NC	V	NC	n/a	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
154	No Access to complete Meter Removal	NC	V	NC	n/a	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
157	Meter Removal Completed	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
231	Account creation transaction.	NC	T	C	n/a	AccountCreationNotification	Xsi type change during transform. Use of Read schedule fields, not next scheduled read. Jemena specific fields not provided. See section 5.5 for further details.
242	Meter Data Verification	NC	T	NC	n/a	MeterDataVerifyRequest	Xsi type change during transform. MeterSerialNumber would be removed during transform. See section 5.3 for further details.
243	Meter Data Verification	NC	V	C	n/a	MeterDataVerifyResponse	Retailers to support two Xsi types for MeterSerialNumber to be optional (GasMeterVerifyResponseData and GasMeterVerifyResponseWithMSN Data). See section 5.4 for further details.
246	Energy Flow Adjustment for RB	C	V	C	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor.

							Variance of extra fields for User. See section 5.1 for further details.
246A	Energy Flow Adjustment for RB Response	NC	V	NC	n/a	MeterDataResponse	
280	Discovery request	NC	V	NC	n/a	NMIDiscoveryRequest	
		NC	V	NC	n/a	NMISTandingDataRequest	
281	MIRN Standing Data	NC	T	C	n/a	NMIDiscoveryResponse	Xsi type change (including field relocations) and NetworkID derived during transform. Jemena required fields not provided during transform. See section 5.9.2 for further details.
		NC	T	C	n/a	NMISTandingDataResponse	Xsi type change (including field relocations) and NetworkID derived during transform. Jemena required. See section 5.9.3 for further details.
284	MIRN Additional Data	NC	T	C	n/a	NMIDiscoveryResponse	Xsi type change (including field relocations) and NetworkID derived during transform. Jemena required. See section 5.9.2 for further details.
		NC	T	C	n/a	NMISTandingDataResponse	Xsi type change (including field relocations) and NetworkID derived during transform. Jemena required. See section 5.9.3 for further details.
285	MIRN Discovery Assistance	NC	n/a	NC	n/a	N/A	
289	Standing Data Change from DB	NC	n/a	NC	n/a	N/A	
298	Refresh of New Street Listing for MIRN Discovery	C	n/a	NR	n/a	N/A	Field differences between PBP5 and SA version. Retailers to use Transaction 2440 (public MIBB report) See section 5.10 for further details.

299	Complete Mirn Listing	NC	n/a	C	n/a	N/A	No Mirn status, Meter Type or Network Id fields. See section 5.11 for further details.
310	Service Connection requests	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
310A	Service Connection requests Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
311	Service Connection Complete	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
312	Service Disconnection Request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
312A	Service Disconnection Request Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
313	Service Disconnection Complete	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
314	Service Orders for Priority C-K	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
314A	Service Orders for Priority C-K Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further

							details.
315	Service Orders Completed for Priority A-K	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
316	Relocate Service Connection request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
316A	Relocate Service Connection request Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
317	Relocate Service Complete	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
318	Upgrade Service Size request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required and removed during transform. See section 5.13.1 for further details.
318A	Upgrade Service Size request Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
319	Upgrade Service Size Complete	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
320	Upgrade Meter Size request	NC	T	C	C	ServiceOrderRequest	Process flow to follow SA SID. Jemena required fields not required

							and removed during transform. See section 5.13.1 for further details.
320A	Upgrade Meter Size request Response	NC	V	NC	C	ServiceOrderResponse	Process flow to follow SA SID. See section 5.13.2 for further details.
321	Upgrade Meter Size Complete	NC	T	C	C	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
330	Notification of planned outage	NC	n/a	C	n/a	N/A	Not via Hub for SA and COUNTRY or NSWCR networks. See section 5.13.3 for further details.
331	Network Duos billing details (Tariff V)	NC	V	C	n/a	NetworkDUoSBillingNot ification	Tariff V data element instead of Tariff B for Volume. See section 5.8 for further details.
332	Network Duos billing details (Tariff D)	NC	V	C	n/a	NetworkDUoSBillingNot ification	Tariff D instead of Tariff A for Demand. See section 5.8 for further details.
333	Meter Range Updates	C	n/a	C	n/a	N/A	Not Required for NSW/ACT networks AGLGN and ACTEW. Required for networks COUNTRY and NSWCR and to include hot water mapping range.
334	Network Duos billing details (Tariff H)	NR	n/a	NR	n/a	NetworkDUoSBillingNot ification	
350	Network DUoS Billing Details (Excluded Services)	NC	V	NC	n/a	NetworkDUoSBillingNot ification	

351	Network DUoS Billing Details (Dispute Notification)	NC	V	NC	n/a	NetworkDUoSBillingNot ification	
352	Network DUoS Billing Details (Dispute Resolution)	NC	V	NC	n/a	NetworkDUoSBillingNot ification	
353	Network DUoS Billing Details (Payment Advice)	NC	V	NC	n/a	NetworkDUoSBillingNot ification	
354	Cross Meter Investigation. Initiate Request	NR	n/a	NR	n/a	N/A	
355	Cross Meter Investigation. Investigation Report	NR	n/a	NR	n/a	N/A	
356	Obtain CFRO for MRM and/or SDR	NR	n/a	NR	n/a	N/A	
357	Meter High Accounts (MHAs) or Meter Retake and Test (MRT)	NR	n/a	NR	n/a	N/A	
358	Meter High Accounts (MHAs) or Meter Retake and Test (MRT)	NR	n/a	NR	n/a	N/A	
995	Estimated Energy Flow which is for 2nd Tier Site that has been transferred as a result of a RoLR event	NC	T	NC	n/a	MeterDataNotification	Consumption litres in volume flow. Use of VCF in PCF for Distributor. Variance of extra fields for User. See section 5.1 for further details.
1000	MIRN Standing Data	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.
1005	Account Creation	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.
1010	Customer and Site Details from FRB to RoLR	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.
1020	Basic Meter Metering Data	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.

1030	Interval Meter Metering Data	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.
1040	Service Orders Completed for Priority A -K	NC	T	C	n/a	ServiceOrderResponse	SA process outcomes for retailers, changed xsi types during transform. Jemena specific fields not provided. See section 5.13.2 for further details.
1050	List of Cancelled Service Orders	C	n/a	NC	n/a	N/A	Apply NSWACTGAS for market component of CSV file name.

3.1.2 B2M

The following table shows the B2M transactions, from the SA/WA Interface Control Document which are used in the NSW/ACT Retail Market (networks of “NSWCR” and “COUNTRY”) either “modified” or “not modified”. Where applicable the equivalent transaction reference numbers as per the Table of Transactions (Participants Build Pack 1) have been provided.

Note: The reference “C” in the Distributor Impact column means the data elements or the rule that determines whether the data element is mandatory or otherwise differs from those prescribed in the Interface Definition (For the SA and WA Gas Retail Markets) as a Distributor operating against the SA Gas Retail Market equivalent build pack, including the aseXML schema version applicable for that jurisdiction.

Note: The reference “C” in the User Impact column means the data elements or the rule that determines whether the data element is mandatory or otherwise differs from those prescribed in Participant Build Pack 5 as a User or Market Operator (and Distributor if so nominated) operating against the NSW/ACT Gas Retail Market Participant Build pack 5, including the aseXML schema version applicable for that jurisdiction.

Note: The reference “T” in the AEMO Transform Type column means a transaction specific transformation (in addition to generic aseXML version transformation) must occur where an aseXML message is sent to or from a Distributor operating against the SA Gas Retail Market equivalent build pack, including the aseXML schema version applicable for that jurisdiction (the reference “V” denotes only generic aseXML version transformation is required).

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
170	Transfer Request	CATSChangeRequest	TFR-REQ	Incoming User	AEMO	aseXML	NR	n/a	NC	
2135	Transfer Error Correction Request	CATSChangeRequest	ECNET	Previous User	AEMO	AseXML	NR	n/a	NC	
170A	Transfer Request Response	CATSChangeResponse	TFR-NOTF-IU, ECNET-NOTF-PU	AEMO	Incoming User/ Previous User	aseXML	NR	n/a	NC	
205	Transfer Withdrawal Notice	CATSChangeWithdrawal	TFR-WREQ, ECNET-WDR	Incoming User/ Previous user	AEMO	aseXML	NR	n/a	NC	
210	Notice of Read Failure	CATSDataRequest	TFR-MAR-NOTF	AEMO	Current User	aseXML	NR	n/a	NC	Will not be provided to Distributor as per SA. See section 5.12.6 for further details.
211	Notice of Read Failure	CATSDataRequest	TFR-MAR-NOTF	AEMO	Incoming User	aseXML	NR	n/a	NC	Will not be provided to Distributor as per SA.

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
										See section 5.12.6 for further details.
183	Notice of Transfer (REQUESTED)	CATSNotification	TFR-NOTF-CU	AEMO	Current User	aseXML	NR	n/a	NC	
193	Objection Notification (OBJECTION) or Objection Withdrawal Notification	CATSNotification	TFR-WOB-NOTF-IU*, ECNET-WOB-NOTF-PU*	AEMO	Incoming User/Previous User	aseXML	NR	n/a	NC	
195A	Objection Notification (OBJECTION) or Objection Withdrawal Notification	CATSNotification	TRF-WOB-NOTF-CU, ECNET-WOB-NOTF-OP*, TFR-OBJ-NOTF	AEMO	Current User	aseXML	NR	n/a	NC	
185	Notice of Transfer (REQUESTED)	CATSNotification	TFR-NOTF-NO , ECNET-NOTF-NO	AEMO	Distributor	AseXML	NC	T	NR	Element value conversion during transform. See section 5.12.2.1 for further details.
184	Notice of Transfer (REQUESTED)	CATSNotification	ECNET-NOTF-CU	AEMO	Affected User	AseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
193	Objection Notification or Objection Withdrawal Notification	CATSNotification	ECNET-WOB-NOTF-PU*	AEMO	Previous User	AseXML	NR	n/a	NC	
232	Transfer Status Update (PENDING)	CATSNotification	TFR-PEND-MI-NOTF, TFR-PEND-NOTF, ECNET-PEND-NOTF	AEMO	Incoming User/ Previous User	aseXML	NR	n/a	NC	
233	Transfer Status Update (PENDING)	CATSNotification	TFR-PEND-MI-NOTF, TFR-PEND-NOTF	AEMO	Current User	aseXML	NR	n/a	NC	
234	Transfer Status Update (PENDING)	CATSNotification	TFR-PEND-MI-NOTF, TFR-PEND-NOTF, ECNET-PEND-NOTF	AEMO	Distributor	aseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.3 for further details.
235	Transfer Status Update (PENDING)	CATSNotification	ECNET-PEND-NOTF	AEMO	Affected User	aseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
193	Objection Notification or Objection Withdrawal Notification (OBJECTION)	CATSNotification	TFR-OBJ-NOTF-IU, ECNET-OBJ-NOTF-PU, ECNET-WOB-NOTF-PU*, TFR-WOB-NOTF-IU*	AEMO	Incoming User Previous User	aseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
194	Objection Notification (OBJECTION) or Objection Withdrawal Notification	CATSNotification	TFR-WOB-NOTF-OP*, ECNET-OBJ-NOTF	AEMO	Distributor	AseXML	C	n/a	NR	Note, in SA the Distributor does not receive a CATSNotification for OBJ if raised by the CU. See section 5.12.2.5 for further details for Objection notification. For WW&T this may be sent. See section 5.12.2.6 for further details. For Objection Withdrawal notification.
196	Transfer Cancellation (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Incoming User	aseXML	NR	n/a	NC	
197	Transfer Cancellation (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Current User	aseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
198	Transfer Cancellation (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Distributor	aseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.8 for further details.
222	Transfer Termination Notice (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Previous User/ Incoming User	aseXML	NR	n/a	NC	
223	Transfer Termination Notice (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Current User	aseXML	NR	n/a	NC	
224	Transfer Termination Notice (CANCELLED)	CATSNotification	TFR-CAN-NOTF, ECNET-CAN-NOTF	AEMO	Distributor/	aseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.8 for further details.

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
226	Notice of Transfer (COMPLETED)	CATSNotification	TFR-CONF-NOTF, ECNET-CONF-NOTF	AEMO	Incoming User	aseXML	NR	n/a	NC	
227	Notice of Transfer (COMPLETED)	CATSNotification	TFR-CONF-NOTF	AEMO	Current User/	aseXML	NR	n/a	NC	
228	Notice of Transfer (COMPLETED)	CATSNotification	ECNET-CONF-NOTF	AEMO	Affected User	aseXML	NR	n/a	NC	
229	Notice of Transfer (COMPLETED)	CATSNotification	TFR-CONF-NOTF, ECNET-CONF-NOTF	AEMO	Distributor	aseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.4 for further details.
2137	Objection – Distributor	CATSObjectionRequest	TFR-OBJ-NO	Distributor	AEMO	aseXML	NC	T	NR	Element value conversion during transform when sent by Distributor. See section 5.12.3.1 for further details.

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
N/A	Objection – ROLR	CATSOBJectionRequest	TFR-OBJ-ROLR	ROLR	AEMO	aseXML	NR	n/a	NR	
N/A	Objection – Distributor (Error correction)	CATSOBJectionRequest	ECNET-OBJ-NO	Distributor	AEMO	AseXML	NR	n/a	NR	Distributor will not be raising objection for error corrections in COUNTRY or NSWCR networks. See section 5.12.3.1 for further details.
187	Objection	CATSOBJectionRequest	ECNET-OBJ-CU	Current User	AEMO	AseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
2138	Objection Response (Distributor)	CATSOBJectionResponse	TFR-OBJ-NOTF-OP	AEMO	Objecting Participant	aseXML	C	V	NR	See section 5.12.3.2 for further details for default values handling of event elements. No specific transform.
187A	Objection Response	CATSOBJectionResponse	ECNET-OBJ-NOTF-OP	AEMO	Objecting Participant	AseXML	NR	n/a	NC	Distributor will not be raising objection for error corrections in COUNTRY or NSWCR networks. See section 5.12.3.2 for further details.

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
191	Withdrawal of Objection	CATSOBJECTIONWithd rawal	ECNET-WOB	Current User	AEMO	AseXML	NR	n/a	NC	Distributor will not be raising objection for error corrections in COUNTRY or NSWCR networks. See section 5.12.4.1 for further details.
2139	Withdrawal of Objection – Distributor	CATSOBJECTIONWithd rawal	TFR-WOBJ	Distributor	AEMO	aseXML	NC	T	NC	Element value conversion during transform when sent by Distributor. See section 5.12.4.1 for further details.
202	Problem Notice	CATSChangeAlert	TFR-ALERT-CU	Current User	AEMO	AseXML	NR	n/a	NC	
203	Problem Notice	CATSChangeAlert		Affected User	AEMO	AseXML	NR	n/a	NC	
204	Problem Notice	CATSChangeAlert	TFR-ALERT-IU	AEMO	Incoming User	aseXML	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
N/A	Deliver Standing Data	NMIStandingDataUpdateNotification/SingleNMIStandingData (new transaction)	DSD	AEMO	Current user/ Distributor	aseXML	NR	n/a	NR	
94	AEMO Meter Fix notification	GasMeterNotification/MeterFix	COM-DP	Distributor	AEMO Registry	AseXML	NC	T	NR	Xsi type changed, NSW additional fields derived, SA specific fields removed, role type conversion during transform. AEMO to allow for optional TransmissionZone and HeatingValueZone. See section 5.14.1 for further details.
158	MIRN status update notification	GasMeterNotification/MIRNStatusUpdate	DIS-CON, REC-CON, PR-CON	Distributor	AEMO	aseXML	NC	V	NR	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
261	Non-provision of Energy Data	MeterDataMissingNotification	DIS-MR-ALT, REC-MR-ALT, PR-MR-ALT	AEMO	Distributor	aseXML	NC	V	NR	
N/A	Provision of bulk Market Operator standing data	n/a	PROV-BSD	AEMO	Distributor/ Current User	Bulk Electronic File	NR	n/a	NR	
N/A	Provision of historical Market Operator standing data	n/a	PROV-HSD	AEMO	Distributor/ Current User	Bulk Electronic File	NR	n/a	NR	
N/A	Provision of MIRNs transferred to ROLR	n/a	PROV-ROLR-TFR	AEMO	Distributor	Bulk Electronic File	NC	n/a	NR	
N/A	Provision of transactions cancelled during a ROLR event	n/a	PROV-ROLR-CNCL-TX	AEMO	Distributor/ Incoming User/ Previous User	Bulk Electronic File	NC	n/a	NC	
264	Base Load and Heating Rate	n/a	BLHR	Distributor	AEMO	Bulk Electronic File	NC	n/a	NR	
N/A	Error Correction Notice for New Connection and Permanent Removal	n/a	ECNND	Distributor	AEMO	Notice	NC	n/a	NR	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.	
N/A	Error correction for New Connection and Permanent Removal Confirmation Notification	n/a	ECNND-CONF-NOTF	AEMO	Distributor/ Current User	Notice	NC	n/a	NC		
N/A	Error Correction Notice For New Connection and Permanent Removal rejected	n/a	ECNND-REJ	AEMO	Distributor	Notice	NC	n/a	NC		
N/A	Data change Notice	n/a	DCN	Distributor/ Provider of BL and HR	AEMO	Notice	NC	n/a	NR		
N/A	Multiple Data change Notice	n/a	DCN-MULT	Distributor/ Provider of BL and HR	AEMO	Notice	NC	n/a	NR		
N/A	Notification that Multiple Data change Notice is not appropriate	n/a	DCN-NO-MULT-NOTF	AEMO	Distributor/ Provider of BL and HR	Notice	NC	n/a	NR		
N/A	Data Change Notice Cancelled Notification	n/a	DCN-CAN-NOTF	AEMO	Distributor/ Provider of BL and HR	Notice	NC	n/a	NR		
N/A	Notice of new sub-network code	n/a	NOT-SNC	Distributor	Market Operator GRMS Ops	Notice	NC	n/a	NR		

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
N/A	Notice of the time and date of Market Operator standing data generation	n/a	NOT-SDGEN	AEMO	Distributor/ Current User	Notice	NC	n/a	NC	
N/A	Request For Bulk Standing Data	n/a	REQ-BSD	Distributor/ Current User	AEMO	Notice	NC	n/a	NC	
N/A	Notification of request for bulk standing Data rejected	n/a	NOT-BSD-REJ	AEMO	Participant	Notice	NC	n/a	NC	
N/A	Notice of Market Operator GBO ID.	n/a	NOT-GBO	RMA	GRMS Operations/ Participant	Notice	NC	n/a	NC	
N/A	Historical Market Operator standing data request	n/a	REQ-HSD	Participant	GRMS Operations	Notice	NR	n/a	NC	
N/A	Notification that Historical Market Operator Standing Data request was rejected.	n/a	NOT- HSD-REJ	AEMO	Participant	Notice	NR	n/a	NC	
N/A	Notice of no change made to registry entity	n/a	NOT-NOCHNG	AEMO	Distributor / Provider of BL and HR	Notice	NC	n/a	NR	
N/A	Notice of invocation of ROLR scheme	n/a	NOT-ROLR	RMA	AEMO	Notice	NR	n/a	NR	

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N/A	Notification of ROLR transfer day	n/a	NOT-ROLR-TD	AEMO	Participant	Notice	NC	n/a	NC		
N/A	Notice of change to GBO information	n/a	GBO-CHNG	RMA	AEMO	Notice	NR	n/a	NR		
N/A	Notice of change to GBO Status	n/a	GBO-STATUS-CHNG	AEMO	Participant	Notice	NC	n/a	NC		
N/A	Disconnection Cancelled Notification	n/a	DIS-CAN-NOTF	AEMO	Distributor	Notice	NR	n/a	NR		
N/A	Reconnection Cancelled Notification	n/a	REC-CAN-NOTF	AEMO	Distributor	Notice	NR	n/a	NR		
N/A	Permanent Removal Cancelled Notification	n/a	PR-CAN-NOTF	AEMO	Distributor	Notice	NR	n/a	NR		
N/A	Notice of change required in network operator databases	n/a	NOT-NODB	AEMO	Distributor	Notice	NC	n/a	NR		
N/A	Notice of no change made to network operator databases	n/a	NOT-NODB-NOCHNG	Distributor	AEMO	Notice	NC	n/a	NR		
N/A	Withdraw Historical Market Operator Standing Data request	n/a	WDR-HSD	Participant	AEMO	Notice	NR	n/a	NC		

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42	Meter Reads – Energy and Consumption (DB to AEMO)	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
10	AEMO Customer Transfer Special Read notification	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
48	Energy History Response	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
52	Energy Flow which is for 2nd Tier Site that has been Estimated	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
54	Energy Flow which is for 2nd Tier Site that has been Substituted.	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields.

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										See section 5.2 for further details.
247	Energy Flow Adjustment for AEMO	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
260	Provision of Energy Data	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
262	Energy Flow Adjustment for AEMO	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.
263	Provision of Revised Energy Data	MeterDataNotification	BSCMR	Distributor	AEMO	aseXML	C	V	NR	Hot water meters included using Gas fields. See section 5.2 for further details.

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42A	Energy Flow from a 2nd Tier Site for AEMO for a Special Read or Schedule read response	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		
10A	AEMO Customer Transfer Special Read notification	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		
52A	Energy Flow which is for 2nd Tier Site that has been Estimated response	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		
54A	Energy Flow which is for 2nd Tier Site that has been Substituted response.	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		
247A	Energy Flow Adjustment for AEMO response	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		
260A	Response to provision of Energy Data	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR		

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262A	Response to Provision of Missing Energy Data	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR	
263A	Response to Provision of Revised Energy Data	MeterDataResponse	BSCMR-RESP	AEMO	Distributor	AseXML	NC	V	NR	
2117	Interval Meter Reading Data	n/a	INTMR	Distributor AEMO	AEMO Participants	Automated Electronic File	C	T	C	Conversion from CSV to MeterDataNotification aseXML (for AEMO) and restructured CSV data (for Users) See section 6.2.1 for further details.
N/A	Gate Point Metering Data	n/a	GPMD (WA)	Distributor	AEMO	Automated Electronic File	NR	n/a	NR	
N/A	Gate Point Energy Inflow	n/a	GPENG	Pipeline Operator AEMO	AEMO Pipeline Operator User	Automated Electronic File	NR	n/a	NR	

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2000	Gate Point Metering Data	n/a	GPMD (SA)	Distributor	AEMO	Automated Electronic File	C	T	NR	Delivery via MIBB. Conversion to TotalGasInjected Notification aseXML transaction for AEMO during transform. See section 6.7.2 for further details.
N/A	User Allocation Instruction	n/a	UAI	User	AEMO	Automated Electronic File	NR	n/a	NR	
N/A	User Allocation for a Shipper	n/a	UA-SHP	AEMO	Shipper	Automated Electronic File	NR	n/a	NR	
N/A	Notification about substituted user allocation instruction	n/a	UAI-SUBS	AEMO	User	Automated Electronic File	NR	n/a	NR	
N/A	Invalid User Allocation Instruction	n/a	UAI-INV	AEMO	User	Automated Electronic File	NR	n/a	NR	

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N/A	User Allocation Instruction - Use Shipper Register	n/a	NOT-UAI-USR	Market Operator GRMS Ops	Market Operator RMA	Notice	NR	n/a	NR		
N/A	Shipper Register Listing Request	n/a	SHPREGLST	Swing service Provider, Shipper	Market Operator GRMS Ops	Notice	NR	n/a	NR		
N/A	Shipper Registration Report Request	n/a	SHPRPTREQ	Pipeline Operator	AEMO	Notice	NR	n/a	NR		
N/A	Shipper Registration Report	n/a	SHPREGRPT	AEMO	Pipeline Operator	Bulk electronic file	NR	n/a	NR		
N/A	Shipper Register Removal	n/a	SHPREGRMV	Pipeline Operator	AEMO	Notice	NR	n/a	NR		
N/A	Profile	n/a	PROF	Market Operator RMA	AEMO	Notice	NR	n/a	NR		
N/A	Pipeline Profile	n/a	PIPPRF	Pipeline Operator	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Pipeline Ratio	n/a	PIPRATIO	AEMO	Pipeline Operator	Automated Electronic File	NR	n/a	NR		

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N/A	User's Pipeline Nomination	n/a	UPNA	User	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Sub-network Profiled Nomination	n/a	NPN	AEMO	User, Shipper, Distributor, Pipeline Operator, Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	Pipeline Profiled Nomination	n/a	PPN	AEMO	User, Shipper, Distributor, Pipeline Operator, Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	Forecast unaccounted for gas	n/a	FUAFG	Distributor	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Anticipated User Interval Withdrawal	n/a	AUIW	User	AEMO	Automated Electronic File	NR	n/a	NR		

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N/A	Interval-Meter Demand Profile	n/a	IMDPROF	User	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Sub-Network Profile Forecast	n/a	NPF	AEMO	User, Shipper, Pipeline Operator, Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	User's Profile Forecast	n/a	UPF	AEMO	User	Automated Electronic File	NR	n/a	NR		
N/A	Participant Profile Forecast	n/a	PPF	AEMO	Shipper, Pipeline Operator, Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	Gate Point Energy and Profile	n/a	GPENGPROF	Market Operator RMA	User, Pipeline operator	Automated Electronic File	NR	n/a	NR		
N/A	Estimated Consumption Amount	n/a	ECA	Market Operator RMA	User	Automated Electronic File	NR	n/a	NR		

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2005	User's unaccounted for gas	n/a	UUAFG	Distributor	AEMO	Automated Electronic File	C	T	NR	Delivery via MIBB. Conversion to LinepackAndUnaccountedForGasNotification aseXML transaction for AEMO during transform. See section 6.7.3 for further details.
N/A	Revised User's unaccounted for gas	n/a	RUAFG	AEMO	Distributor	Automated Electronic File	NR	n/a	NR	
N/A	Actual Unaccounted For Gas	n/a	AUAFG	AEMO	Distributor	Automated Electronic File	NR	n/a	NR	
N/A	User's estimated total withdrawal	n/a	UETW	AEMO	User	Automated Electronic File	NR	n/a	NR	
N/A	Heating Degree Day	n/a	HDD	AEMO	User Distributor	Automated Electronic File	NR	n/a	NR	

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N/A	User's total reconciliation amount	n/a	TRA	AEMO	User Distributor	Automated Electronic File	NR	n/a	NR		
N/A	Gate Point Adjustment Amount	n/a	GAA	AEMO	User Distributor Pipeline Operator	Automated Electronic File	NR	n/a	NR		
N/A	User's Historical Gas Day Reconciliation Amounts	n/a	UHRA	AEMO	User	Automated Electronic File	NR	n/a	NR		
N/A	Miscellaneous Reconciliation Amount	n/a	MRA-NOTF	Market Operator RMA	AEMO	Notice	NR	n/a	NR		
N/A	Normalisation Factor and Net System Load	n/a	NORM-NSL	AEMO	User, Distributor	Automated Electronic File	NR	n/a	NR		
N/A	Deemed Injections	n/a	DI	AEMO	Shipper, Pipeline Operator Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	User's total deemed withdrawal	n/a	UDW	AEMO	User	Automated Electronic File	NR	n/a	NR		

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N/A	User's hourly sub network apportionment	n/a	UHSA	AEMO	User	Automated Electronic File	NR	n/a	NR		
N/A	Shippers hourly gate point apportionment	n/a	SHGA	AEMO	Shipper Swing Service Provider Pipeline Operator	Automated Electronic File	NR	n/a	NR		
N/A	Swing Service	n/a	SS	AEMO	User, Pipeline Operator Distributor Shipper	Automated Electronic File	NR	n/a	NR		
N/A	User's swing service amounts	n/a	USS	AEMO	User	Automated Electronic File	NR	n/a	NR		
N/A	User off-market service procurement	n/a	OMP-USR	User	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Swing Service Provider off-market service procurement	n/a	OMP-SSP	Swing Service Provider	AEMO	Automated Electronic File	NR	n/a	NR		

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N/A	Swing Service Provider off-market service procurement surplus instruction	n/a	OMP-SURPLUS	Swing Service Provider	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Off-market service procurement instruction Status	n/a	OMP-STATUS	AEMO	Swing Service Provider and User	Automated Electronic File	NR	n/a	NR		
N/A	Swing Service Bids	n/a	BID-SSP	Swing Service Provider	AEMO	Automated Electronic File	NR	n/a	NR		
N/A	Bid Stack Publication	n/a	BID-PUB	AEMO	Swing Service Provider and User Participant	Automated Electronic File	NR	n/a	NR		
N/A	Marginal clearing price (MCP) for the total amount of Swing Service to be procured through the bid stack	n/a	MCP-TSS	AEMO	Swing Service Provider and User Participant	Automated Electronic File	NR	n/a	NR		

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N/A	The MCP for the total of all adjusted non-user-specific amounts of Swing Service to be procured through the bid stack. ("marginal clearing price for the total of all adjusted socialised amounts of swing service" in SA)	n/a	MCP-TANUSA	AEMO	Swing Service Provider and User Participant	Automated Electronic File	NR	n/a	NR		
N/A	Notification of Swing Service Allocation through the Bid Stack	n/a	BID-ALLOC	AEMO	Swing Service Provider and User	Automated Electronic File	NR	n/a	NR		
N/A	Swing Service Repayment Quantity	n/a	SRQ	AEMO	User	Automated Electronic File	NR	n/a	NR		
N/A	Applied Off-market service procurement	n/a	OMP-APP	AEMO	Swing Service Provider and User	Automated Electronic File	NR	n/a	NR		
N/A	Monthly Interval-Meter Load Percentage	n/a	MILP	AEMO	User	Automated Electronic File	NR	n/a	NR		

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N/A	Deemed Gas Quantity	n/a	DGQ	AEMO	Pipeline Operator, Shipper and Swing Service Provider	Automated Electronic File	NR	n/a	NR		
N/A	Historical pipeline injection data	n/a	PCI_HST	AEMO	User Distributor	Automated Electronic File	NR	n/a	NR		
N/A	Historical user withdrawal data	n/a	UETW_HST	AEMO	User Distributor	Automated Electronic File	NR	n/a	NR		
N/A	Request for Suspension of BAR calculations	n/a	CALC-REQUEST	Market Operator RMA	Market Operator GRMS Ops	Notice	NR	n/a	NR		
N/A	General Notification	n/a	GEN-NOTIFY	AEMO	User, ROLR, Distributor, Shipper, Pipeline Operator Swing Service Provider	Notice	NC	n/a	NC		

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N/A	Start of Alternative Settlement Period Notification	n/a	SASP-NOTIFY	Market Operator	GRMS	Notice	NR	n/a	NR		
N/A	End of Alternative Settlement Period Notification	n/a	EASP-NOTIFY	Market Operator	GRMS	Notice	NR	n/a	NR		
N/A	ASPDATA Report	n/a	ASPDATA	GRMS	Appointed Independent Reviewer or Independent Expert	Notice	NR	n/a	NR		
N/A	Request to Recalculate	n/a	RECALC-REQUEST	Market Operator	GRMS	Notice	NR	n/a	NR		
N/A	Swing Service Over Threshold and Calculated With Estimated GPMD	n/a	SS-OVERTHRES	GRMS	Market Operator	Notice	NR	n/a	NR		
N/A	Difference between Estimated and Actual GPMD Values Exceeds Threshold	n/a	GPMD-DIFFOVER	GRMS	Market Operator	Notice	NR	n/a	NR		
N/A	Request for Estimate Usage in Market Calculation Report	n/a	GPMD-ESTPREPREQ	Market Operator	GRMS	Notice	NR	n/a	NR		

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N/A	Estimate Usage in Market Calculation Report	n/a	GPMD-ESTREPORT	GRMS	Market Operator	Notice	NR	n/a	NR	
39	Heating Value for the day	n/a		AEMO	Distributor	Automated Electronic File	NR	n/a	NR	
47	Energy History Request	MeterDataHistoryRequest		AEMO	Distributor	AseXML	NR	n/a	NR	
56	Calculate and publish EDD. MIBB - INT91	n/a		AEMO	Distributor	Automated Electronic File	NR	n/a	NR	
57	Heating Value for the day	n/a		AEMO	Distributor	Automated Electronic File	NR	n/a	NR	
126	Application for Metering Installation Registration or Parameter Change Notice	n/a		Distributor	Market Operator	Fax with standard form	NR	n/a	NR	

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131	Application for Metering Installation Registration or Parameter Change Notice	n/a		Distributor	Market Operator	Fax with standard form	NR	n/a	NR	
181	Request for Data	CATSDataRequest		AEMO	Distributor	AseXML	NR	n/a	NR	
182	Request for Data	CATSCheckRequest		Distributor	AEMO	AseXML	NR	n/a	NR	
182A	Request Standing data Response	CATSCheckResponse		AEMO	Distributor	AseXML	NR	n/a	NR	
186	Transfer Notice	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
195	Objection Notification or Objection Withdrawal Notification	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
199	Transfer Cancellation	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
200	Problem Notice	CATSCheckAlert		Distributor	AEMO	AseXML	NR	n/a	NR	
201	Problem Notice	CATSCheckAlert		TSSP	AEMO	AseXML	NR	n/a	NR	
206	Transfer Withdrawal Notice	CATSNotification		AEMO	Current User	AseXML	NR	n/a	NC	

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206A	Transfer Withdrawal Notice	CATSNotification		AEMO	Incoming User	AseXML	NR	n/a	NC	
207	Transfer Withdrawal Notice	CATSNotification		AEMO	Affected User	AseXML	NR	n/a	NC	
208	Transfer Withdrawal Notice	CATSNotification		AEMO	Distributor	AseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.7 and 5.12.2.8 for further details.
209	Transfer Withdrawal Notice	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
212	Notice of Read Failure	CATSDataRequest		AEMO	Distributor	AseXML	NR	n/a	NR	
213	Notice of Read Failure	CATSDataRequest		AEMO	TSSP	AseXML	NR	n/a	NR	
214	New Transfer Date	CATSChangeRequest		Incoming User	AEMO	AseXML	NR	n/a	NR	

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214A	New Transfer Date Response to Alternative Transfer Date Request	CATSChangeResponse		AEMO	Incoming User	AseXML	NR	n/a	NR	
219	New Transfer Date	CATSNotification		AEMO	Current User	AseXML	NR	n/a	NR	
220	New Transfer Date	CATSNotification		AEMO	Distributor	AseXML	NR	n/a	NR	
221	New Transfer Date	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
225	Transfer Termination Notice	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
230	Notice of Transfer	CATSNotification		AEMO	TSSP	AseXML	NR	n/a	NR	
264A	Bi-annual and ad-hoc refresh of BL & TSF response	n/a		Market Operator	Distributor	Bulk Electronic File	NR	n/a	NR	
264B	Bi-annual and ad-hoc refresh of BL & TSF	n/a		Distributor	Market Operator	Bulk Electronic File	NR	n/a	NR	
265	MIBB - INT254	n/a		AEMO	Retailers	Automated Electronic File	NR	n/a	NR	

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266	MIBB - INT91	n/a		AEMO	Participants	Automated Electronic File	NR	n/a	NR	
267	MIBB - INT171	n/a		AEMO	Participants	Automated Electronic File	NR	n/a	NR	
287	Allocation of numbers for MIRNS	n/a		Market Operator	Distributor	Email, fax, mail	NR	n/a	NR	
296	Allocation of numbers for MIRN for TSSP	n/a		Market Operator	TSSP	Fax with form	NR	n/a	NR	
297	MIRN Standing Data for TSSP	n/a		Market Operator	Retailers	Form	NR	n/a	NR	
335	Metering Data Monthly	n/a		Market Operator	Distributor	Automated Electronic File	NR	n/a	NR	
336A	Retailer Churn	n/a		Distributor	Market Operator	Email	NR	n/a	NR	
337	Retailer Churn	n/a		Market Operator	Distributor	Bulk Electronic File	NR	n/a	NR	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
338	Number of Metered Supply Points	MeteredSupplyPointsCountUpdate		Distributor	Market Operator	AseXML	NR	n/a	NR	
900	Customer Details from Non-Declared Host Retailers for RoLR	n/a		Retailer	Market Operator	Automated Electronic File	NR	n/a	C	Market code as NSWACTGAS instead of SAGAS
905	RoLR Basic Compliance	n/a		Market Operator	Retailer	Automated Electronic File	NR	n/a	NC	
910	Transfer Termination Notice	CATSNotification		Market Operator	New FRO (FRB)	AseXML	NR	n/a	NC	
920	Transfer Termination Notice	CATSNotification		Market Operator	Current FRO	AseXML	NR	n/a	NC	
930	Transfer Termination Notice	CATSNotification		Market Operator	Distributor	AseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.8 for further details.

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
940	Accelerated Transaction to speed up New FRO winning a new customer from the FRB.	CATSNotification		Market Operator	New FRO	AseXML	NR	n/a	NC	
950	Accelerated Transaction to speed up New FRO winning a new customer from the FRB.	CATSNotification		Market Operator	Suspended Retailer (FRB)	AseXML	NR	n/a	NC	
960	Accelerated Transaction to speed up New FRO winning a new customer from the FRB.	CATSNotification		Market Operator	Distributor	AseXML	NC	T	NR	Element value conversion during transform when sent to Distributor. See section 5.12.2.4 for further details.
970	Customer and Site Details	n/a		Market Operator	ROLR	Automated Electronic File	NR	n/a	NC	

TRX Ref No	Transaction Type	AseXML transaction (if applicable)	Logical Flow Short Name	From	To	Format	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	AEMO Transform Type V= version transform T= Transaction Specific Transform	User Impact (variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
980	List of RoLR transfers	n/a		Market Operator	Distributor	Automated Electronic File	C	n/a	NR	Market code as NSWACTGAS instead of SAGAS
990	Estimated Energy Flow which is for 2nd Tier Site that has been transferred as a result of a RoLR event	MeterDataNotification		Distributor	Market Operator	AseXML	NR	n/a	NR	
1060	List of AEMO Meter Fixes	n/a		Market Operator	ROLR	Automated Electronic File	NR	n/a	C	Market code as NSWACTGAS instead of SAGAS
1070	RoLR CATS Accelerated and Cancelled MIRNs	n/a		Market Operator	Users	Automated Electronic File	NR	n/a	C	Market code as NSWACTGAS instead of SAGAS

* = TFR-WOB-NOTF-IU ,TFR-WOB-NOTF-OP,ECNET-WOB-NOTF-PU and ECNET-WOB-NOTF-IU can be either "REQUESTED" or "OBJECTED" status, depending if there are any objections left outstanding after the withdrawal. These transactions are listed in the "REQUESTED" variation table.

3.2 New transactions for NSW/ACT (Wagga Wagga and Tamworth networks only)

Transactions introduced under this section are to be used only in the NSW/ACT Retail Market. They include new transactions listed under participant build pack 5, and also new transactions required to support the COUNTRY or NSWCR networks.

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
500	Distributor supplied heating value	MarketReport (if option used).	C	Y	N	C	PBP5 uses daily MIRN Heating value files. Ref 2130. See section 6.4.1 for further details.
500A	Daily Zonal Heating value	N/A	NR	Y	N	C	PBP5 uses daily MIRN Heating value files. Ref 2131. See section 6.4.2 for further details.
2000	ERFTTotalGasInjectedNotification	TotalGasInjectedNotification	C	Y	Y	NR	Submitted as GPMD CSV upload and transformed to aseXML transaction. See section 6.7.2 for further details.
2005	ERFTLinepackAndUnaccountedForGasNotification	LinepackAndUnaccountedForGasNotification	C	Y	Y	NR	Submitted as UUAFG CSV upload and transformed to aseXML transaction. ChangeInLinepack element not populated in PBP6 after transform. See section 6.7.3 for further details.
2020	ERFTPParticipantCLPandUAGNotification	ParticipantCLPandUAGNotification	NR	N	Y	NR	N/A
2025	ERFTMatchedAllocationsDataNotification	MatchedAllocationsDataNotification	NR	N	Y	NR	N/A

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If “C” (Change) brief summary of change and section reference number within PBP6 for further detail.
2030	IAITDailyImbalanceNotification	DailyImbalanceNotification	NR	N	Y	NR	N/A
2035	IAITForecastWithdrawalNotification	N/A	NR	N	Y	NR	N/A
2045	IAITImbalanceTradeRequest	ImbalanceTradeRequest	NR	N	Y	NR	N/A
2060	IAITParticipantImbalanceAmountRequest	ParticipantImbalanceAmountRequest	NR	N	Y	NR	N/A
2115	Meter Reads – Energy and Consumption (Daily read meters) (DB to RBs)	MeterDataNotification	NR	N	Y	NR	N/A
2116	Meter Reads – Energy and Consumption (Daily read meters) (DB to RBs) Response	MeterDataResponse	NR	N	Y	NR	N/A
2117	Meter Reads – Energy and Consumption (Daily read meters) (DB to AEMO)	MeterDataNotification	C	Y	Y	NR	Submitted as INTMR CSV upload and transformed to aseXML transaction with changed CSV payload. See section 6.2.1 for further details.
2118	Meter Reads – Energy and Consumption (Daily read meters) (DB to AEMO) Response	MeterDataResponse	C	Y	Y	NR	Transformed from aseXML to CSV File based acknowledgment. See section 6.8.1.20 for further details.

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If “C” (Change) brief summary of change and section reference number within PBP6 for further detail.
2125	Ancillary charge listing published by the Distributor	N/A	C	Y	Y	C	Fields different to PBP5. See section 6.3 for further details.
2130	Distributor supplied Heating Value	MarketReport	NR	N	Y	NR	N/A
2131	Daily MIRN Heating Values	N/A	NR	N	Y	NR	N/A
2135	Transfer Error Correction Request	CATSCheckRequest	NR	Y	Y	NC	Not new to SA ICD. Refer section 3.1.2.
2137	Objection – Distributor	CATSOBjectionRequest	NC	Y	Y	NR	Not new to SA ICD. Refer section 3.1.2.
2138	Objection Response (Distributor)	CATSOBjectionResponse	NC	Y	Y	NR	Not new to SA ICD. Refer section 3.1.2.
2139	Withdrawal of Objection – Distributor	CATSOBjectionWithdrawal	NC	Y	Y	NR	Not new to SA ICD. Refer section 3.1.2.
2145	Haulage Rights Notification	n/a	NC	Y	Y	NC	N/A
2155	ERFTBasicConsumptionRpt	MarketReport	NR	Y	Y	NC	N/A
2160	ERFTMeterReadingToUserRpt	MarketReport	NR	N	Y	NR	N/A
2165	ERFTMeterReadingToUserNotificationSTTMReport	MarketReport	NR	Y	Y	NC	N/A
2166	ERFTMeterReadingToUserHourlyRpt	MarketReport	NR	Y	N	C	Flagged as ‘C’ for user impact as this report is not used under PBP5, and only applies to users for PBP6.

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If “C” (Change) brief summary of change and section reference number within PBP6 for further detail.
2167	ERFTReconciliationResultsRpt	MarketReport	NR	N	Y	NR	N/A
2168	Meter Reads – Energy (Interval read meters) (DB to RBs via AEMO)	N/A	C	Y	N	NR	Market code change in CSV file name for Distributor. Transformed to T2166 for users. Refer section 6.1.
2170	ERFTChangeOfStandingDataRpt	MarketReport	NR	Y	Y	NC	N/A
2175	ERFTCustomerChurnRpt	MarketReport	NR	Y	Y	NC	N/A
2180	ERFTEstimationResultsToUserRpt	MarketReport	NR	Y	Y	NC	N/A
2185	ERFTRevisedEstimationResultsToUserRpt	MarketReport	NR	Y	Y	NC	N/A
2186	ERFTEstimationResultsToNWORpt	MarketReport	NR	N	Y	NR	N/A
2187	ERFTRevisedEstimationResultsToNWORpt	MarketReport	NR	N	Y	NR	N/A
2190	ERFTForecastingDataRpt	MarketReport	NR	Y	Y	NC	N/A
2195	ERFTApportionmentPercentageRpt	MarketReport	NR	Y	Y	NC	N/A
2200	ERFTTotalGasInjectedRpt	MarketReport	NR	Y	Y	NC	N/A

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
2205	ERFTDailyNSLRpt	MarketReport	NR	Y	Y	NC	N/A
2210	ERFTDailyToUserRpt	MarketReport	NR	N	Y	NR	N/A
2215	ERFTWeeklyToUserRpt	MarketReport	NR	N	Y	NR	N/A
2220	ERFTPreMonthlyToUserRpt	MarketReport	NR	N	Y	NR	N/A
2225	ERFTFinMonthlyToUserRpt	MarketReport	NR	N	Y	NR	N/A
2230	ERFTRevMonthlyToUserRpt	MarketReport	NR	N	Y	NR	N/A
2235	ERFTSTTMPipelineAllocation DataRpt	n/a	NR	N	Y	NR	N/A
2240	ERFTDailyToSTTMRpt	n/a	NR	N	Y	NR	N/A
2245	ERFTWeeklyToSTTMRpt	n/a	NR	N	Y	NR	N/A
2250	ERFTPreMonthlyToSTTMRpt	n/a	NR	N	Y	NR	N/A
2255	ERFTFinMonthlyToSTTMRpt	n/a	NR	N	Y	NR	N/A
2260	ERFTRevMonthlyToSTTMRpt	n/a	NR	N	Y	NR	N/A
2265	DPR Extract	MarketReport	C	Y	Y	NC	DPR extract is a NSWACT report and not used in SA. Refer to section 6.8.1.18
2270	TotalCLPReport (AEMO to User)	MarketReport	NR	N	Y	NR	N/A

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If “C” (Change) brief summary of change and section reference number within PBP6 for further detail.
2275	TotalCLPReport (AEMO to AEMO (STTM))		NR	N	Y	NR	N/A
2280	IAITRevisedImbalanceRpt	MarketReport	NR	N	Y	NR	N/A
2285	IAITMatchedImbalanceTrade Rpt	MarketReport	NR	N	Y	NR	N/A
2290	IAITExpiredImbalanceTradeRpt	MarketReport	NR	N	Y	NR	N/A
2295	IAITParticipantImbalanceAmountRpt	MarketReport	NR	N	Y	NR	N/A
2300	File confirmation Report	N/A	NR	N	Y	NR	N/A
2305	MIBB INT891. EDD report	MarketReport	NR	N	Y	NR	N/A
2310	Meter Reads – Energy and Consumption (DB to Self contracting users)	MeterDataNotification	NC	Y	Y	NC	N/A
2315	Meter Reads – Energy and Consumption (Daily read meters) (DB to Self contracting users)	MeterDataNotification	NR	N	Y	NR	N/A
2410	Network Duos billing details (Tariff A - Demand)	NetworkDUoSBillingNotification	n/a	N	Y	NR	N/A

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
2411	Network Duos billing details (Tariff A - Demand) (DB to Self contracting users)	NetworkDUoSBillingNotification	NR	N	Y	NR	N/A
2415	Network Duos billing details (Tariff B - Volume)	NetworkDUoSBillingNotification	NR	N	Y	NR	N/A
2416	Network Duos billing details (Tariff B - Volume) (DB to Self contracting users)	NetworkDUoSBillingNotification	NR	N	Y	NR	N/A
2420	Confirm quote request made with Distributor	MarketReport	NR	N	Y	NR	N/A
2421	Advise retailer of quotes ready	MarketReport	NR	N	Y	NR	N/A
2430	Advise change of default Network Receipt point for a network section.	N/A	NR	N	Y	NR	N/A
2435	Advise change of baseline Network Receipt point for a specific NMI.	MarketReport	NR	N	Y	NR	N/A
2440	New Street Listing report		NR	Y	Y	NC	N/A
2445	MIRN Upgrade request to Market Operator		C	Y	Y	NR	Unstructured email notice is used in SA. Assumed only to use for Meter type and/or Read Frequency.

Trx Ref No	Transaction Type	AseXML transaction (if applicable)	Distributor Impact (variation from SA Interface Control Document) NC= No change C= Change NR= Not Required	Applicable to WW&T	Listed in PBP5	User impact (Variation from PBP 5) NC= No change C= Change NR= Not Required	If "C" (Change) brief summary of change and section reference number within PBP6 for further detail.
2450	MIRN Downgrade request to Market Operator		C	Y	Y	NR	Unstructured email notice is used in SA. Assumed only to use for Meter type and/or Read Frequency.

3.3 General aseXML schema version transformation

For NSW/ACT where the network is “NSWCR” or “COUNTRY” the distributor may interact with the market based on the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and SA/WA Interface Control Document. If the aseXML schema version specified for used in the SA retail gas market is different to the NSW/ACT retail gas market, the following provides standing guidance on the required transforms for all aseXML transactions via the B2B Hub directed to or from that distributor’s gateways.

These are to be applied only in the context of NSW/ACT where the network is “NSWCR” or “COUNTRY”.

Item	Transformation required where Distributor is the sender	Transformation required where Distributor is the receiver
Schema version flag.	Replace version attribute value from SA market aseXML schema to the NSW/ACT market aseXML schema.	Replace version attribute value from NSW/ACT market aseXML schema to the SA market aseXML schema.
Market element in aseXML header	Where NSWACTGAS is not available in the enumerations list for the Market element of the SA market applicable aseXML schema version: Replace the value in Market element to NSWACTGAS	Where NSWACTGAS is not include in the SA market applicable aseXML schema version: Replace the value in Market element from NSWACTGAS to NSWGAS
Xsi type version attribute updates	Where the xsi type version is specified in the transaction, and has changed between the two aseXML versions, this has to be updated or removed (if that version attribute is optional in the target schema version).	Where the xsi type version is specified in the transaction, and has changed between the two aseXML versions, this has to be updated or removed (if that version attribute is optional in the target schema version).
Transaction version attributes updates	Where the transaction version is specified in the transaction, and has changed between the two aseXML versions, this has to be updated or removed (if that version attribute is optional in the target schema version).	Where the transaction version is specified in the transaction, and has changed between the two aseXML versions, this has to be updated or removed (if that version attribute is optional in the target schema version).

Transformations for aseXML schema version differences would only be applied fully by participant gateway and jurisdiction, ie not applied on an individual transaction basis.

AEMO will monitor transformation gateway exception logs daily and report exceptions to the relevant distributor, and undertake reasonable investigation and remediation action.

4. Reference to applicable Network Operator

The contents of this build pack only apply to the Wagga Wagga and Tamworth network sections. These are identified by the networks listed as COUNTRY and NSWCR respectively.

There are several references in this Participant Build Pack where the usage of certain fields is conditional upon the Network Operator (referenced by the network). The "NetworkID" column in the table below will be used to reference the Network Section. For the intent of this Participant Build Pack:

1. NSW network sections, as per table below, are collectively known as 'Australian Gas Networks Limited (AGNL)' and are owned by Australian Gas Networks (NSW) Pty Ltd ACN 083 199 839 ABN 94 083 199 839 and any successor service provider in law.
2. NSW Tamworth network section is known as 'Central Ranges gas network' and is owned by Central Ranges Pipeline Pty Limited ACN 108218355 ABN 38 108 218 355 and any successor service provider in law.

NetworkID	Participant	Network known as
ACTCANBERRA	ACTEW	ACT gas network
NSWCOOMA	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWWAGGA	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWTEMORA	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWCULCAIRN	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWHENTY	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWBOMBALA	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWTUMUT	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWGUNDAGAI	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWWALLA	COUNTRY	Australian Gas Networks Limited (AGNL)
NSWBARGO	AGLGN	Jemena NSW gas network
NSWBATHURST	AGLGN	Jemena NSW gas network
NSWBLAYNEY	AGLGN	Jemena NSW gas network
NSWBOOROWA	AGLGN	Jemena NSW gas network
NSWBOWRAL	AGLGN	Jemena NSW gas network
NSWCOOLAMON	AGLGN	Jemena NSW gas network
NSWCOOTMNDRA	AGLGN	Jemena NSW gas network
NSWCOWRA	AGLGN	Jemena NSW gas network

NSWDUBBO	AGLGN	Jemena NSW gas network
NSWFORBES	AGLGN	Jemena NSW gas network
NSWGANMAIN	AGLGN	Jemena NSW gas network
NSWGOULBURN	AGLGN	Jemena NSW gas network
NSWGRIFFITH	AGLGN	Jemena NSW gas network
NSWJUNEE	AGLGN	Jemena NSW gas network
NSWLEETON	AGLGN	Jemena NSW gas network
NSWLITHGOW	AGLGN	Jemena NSW gas network
NSWMARULAN	AGLGN	Jemena NSW gas network
NSWMILLTHORP	AGLGN	Jemena NSW gas network
NSWMOSSVALE	AGLGN	Jemena NSW gas network
NSWMURRAMI	AGLGN	Jemena NSW gas network
NSWNARRANDRA	AGLGN	Jemena NSW gas network
NSWNARROMINE	AGLGN	Jemena NSW gas network
NSWOBERON	AGLGN	Jemena NSW gas network
NSWORANGE	AGLGN	Jemena NSW gas network
NSWPARKES	AGLGN	Jemena NSW gas network
NSWROCKDALE	AGLGN	Jemena NSW gas network
NSWSALLYSCNR	AGLGN	Jemena NSW gas network
NSWWALLERWNG	AGLGN	Jemena NSW gas network
NSWWILTON	AGLGN	Jemena NSW gas network
NSWWWYALONG	AGLGN	Jemena NSW gas network
NSWYOUNG	AGLGN	Jemena NSW gas network
NSWYASS	AGLGN	Jemena NSW gas network
NSWTAMWORTH	NSWCR	Central Ranges gas network

4.1 Single meter associated with one MIRN.

In NSW/ACT, for the NSWCR and COUNTRY networks a MIRN will have no more than one meter assigned to a single MIRN.

5. Transactions to be modified for NSW/ACT (Wagga Wagga & Tamworth areas)

Following transactions are modified from NSW/ACT Retail Market requirements (as specified in PBP5) for the WW&T Networks. These transactions are used for the same purpose as the SA market but there may be minor changes to the data elements.

Note: Any text written in this section in blue signifies key points for noting, including change from Participant Build Pack 5, the B2B System Interface Definition (For the SA and WA Gas Retail Markets), the SA/WA Interface Control Document and related SA build documentation.

5.1 Meter Reads – Energy and Consumption (Non Daily read meters) (DB to RBs) (Ref No 41, 9, 13, 17, 50, 53, 51, 246, 2310)

Note: The following CSV elements may not be provided (including placeholders) by the Distributor. Transform process to add additional header field names and data row empty fields (comma delimiters) in that case.

For NSW/ACT the following is added to section 4.1.2 (Provision of Energy Flow Data) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets).

The distributor will only provide validated meter reads of any meter read type.

For NSW/ACT where the network is "NSWCR" or "COUNTRY", consumption data for hot water is provided within existing fields to users. Specifically:

- Consumption litres are provided in the Volume_Flow field.

For NSW/ACT the Distributor may deliver meter reads for Non Daily read meters to Self Contracting users using the same format of the equivalent transaction to retailers. In this case the references to 'retailer' should be taken as 'user'.

For NSW/ACT the following provides transformation guidance between section 4.1.2.1(MeterDataNotification) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.1 (Meter Reads - Energy and Consumption (Non Daily read meters) (DB to RBs)) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving user will receive this transaction based on the NSW/ACT (WW&T) format as defined in this section. If the distributor submits the transaction in the SA Market format this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Note the following CSV elements will not be provided (including placeholders).
 - Meter_Type
 - Common_Factor
 - Consumption_Litres
 - Consumption_Factor

CSV Elements

CSVConsumptionData			
Heading	Mandatory/ Optional / Not Required (SA)	Mandatory/ Optional / Not Required (NSW WW&T)	Comment
NMI	M	M	
NMI_Checksum	M	M	
RB_Reference_Number	O	O	<p>This element will not be provided if the Read is initiated by a Network Operator.</p> <p>The element is always Required if the User initiated the service order and provided the RB_Reference Number.</p> <p>For an implied Service Order (including a move-in or an unblock on transfer) the RB reference number will always equal the transfer request ID allocated by the Market Operator.</p>
Reason_for_Read	M	M	
Gas_Meter_Number	M	M	
Gas_Meter_Units	M	M	
Previous_Index_Value	O	O	Required unless this is the first read for a meter. If not provided the Consumed_Energy will be zero.
Previous_Read_Date	O	O	Required unless this is the first read for a meter. If not provided the Consumed_Energy will be zero.
Current_Index_Value	M	M	
Current_Read_Date	M	M	
Volume_Flow	M	O	<p>Volume Flow is measured in cubic metres</p> <p>For NSW/ACT, required if the network is equal to "NSWCR" or "COUNTRY", and for hot water meters this will be equivalent to consumption litres.</p>
Average_Heating_Value	M	O	<p>For NSW/ACT, required if the network is equal to "NSWCR" or "COUNTRY" this includes Water Meters which are identified as gas meters.</p>

CSVConsumptionData			
Heading	Mandatory/ Optional / Not Required (SA)	Mandatory/ Optional / Not Required (NSW WW&T)	Comment
Pressure_Correction_Factor	M	M	For NSW/ACT, required if the network is equal to "NSWCR" or "COUNTRY". This value is the Volume Correction Factor as defined within the Retail Market Procedures. This value is mandatory for gas meters and hot water meters. For hot water meters the Pressure Correction Factor is PCF x Water conversion factor
Consumed_Energy	M	M	Consumed Energy is measured in Megajoules
Type_of_Read	M	M	
Estimation_Substitution_Type	O	O	Required if Type of Read = "E" or "S"
Estimation_Substitution_Reason_Code	O	O	Required if Type of Read = "E" or "S" If the network is equal to "NSWCR" or "COUNTRY", New Code 18 – Customer Bad Read will not be provided.
Meter_Status	M	M	If "Plugged" this is a Disconnection Read. Will always be "Turned On" in WA as meter status has no meaning in WA.
Next_Scheduled_Read_Date	M	M	
Hi_Low_Failure	M	M	
Meter_Capacity_Failure	M	M	
Adjustment_Reason_Code	M	M	If not = "NC" indicates Meter Data Adjustment
Energy_Calculation_Date_Stamp	NR	NR	This element is defined for use in the corresponding B2M transactions. It is not required for the transactions in this document.
Energy_Calculation_Time_Stamp	NR	NR	This element is defined for use in the corresponding B2M transactions. It is not required for the transactions in this document.

CSVConsumptionData			
Heading	Mandatory/ Optional / Not Required (SA)	Mandatory/ Optional / Not Required (NSW WW&T)	Comment
Meter_Type	NR	NR	Placeholder will not be provided by Distributor using SA format.
Common_Factor	NR	NR	Placeholder will not be provided by Distributor using SA format.
Consumption_Litres	NR	NR	Placeholder will not be provided by Distributor using SA format.
Consumption_Factor	NR	NR	Placeholder will not be provided by Distributor using SA format.

5.2 Meter Reads – Energy and Consumption (Non Daily) (DB to AEMO) (Ref No 42, 10, 48, 52, 54, 247, 260, 262, 263),

For NSW/ACT add the following to section 9.3.1 (MeterDataNotification transaction) of the SA/WA Interface Control Document.

“For NSW/ACT where the network is “NSWCR” or “COUNTRY”, consumption data for hot water is included.”

For NSW/ACT the following provides transformation guidance between section 9.3.1.1 of the SA/WA Interface Control Document and section 5.2 (Meter Reads - Energy and Consumption (Non Daily) (DB to AEMO)) of Participant Build Pack 5 for using the NSW/ACT format.

AEMO will receive this transaction based on the NSW/ACT (WW&T) format as defined in this section. If the distributor submits the transaction in the SA Market format this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Note the following CSV elements may not be provided (including placeholders) by the Distributor. Transform process to add additional header field names and data row empty fields (comma delimiters) in that case.
 - Meter_Type
 - Common_Factor
 - Consumption_Litres
 - Consumption_Factor

CSVConsumptionData			
Heading	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Comment
NMI	M	M	
NMI_Checksum	M	M	
RB_Reference_Number	NR	NR	Identifies that this record fulfils a Special Read Request
Reason_for_Read	NR	NR	
Gas_Meter_Number	NR	NR	
Gas_Meter_Units	NR	NR	
Previous_Index_Value	NR	NR	
Previous_Read_Date	M	O	Required unless this is the first read for a

CSVConsumptionData			
Heading	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Comment
			meter. If not provided the Consumed Energy will be zero.
Current_Index_Value	NR	NR	
Current_Read_Date	M	M	
Volume_Flow	NR	NR	Volume Flow is measured in cubic metres
Average_Heating_Value	NR	NR	
Pressure_Correction_Factor	NR	NR	
Consumed_Energy	M	M	Consumed Energy is measured in Megajoules
Type_of_Read	M	M	A, E, S, or D. D = deemed read. Recipient to process D as Actual read ('A')
Estimation_Substitution_Type	NR	NR	
Estimation_Substitution_Reason_Code	NR	NR	
Meter_Status	NR	NR	
Next_Scheduled_Read_Date	NR	NR	
Hi_Low_Failure	NR	NR	
Meter_Capacity_Failure	NR	NR	
Adjustment_Reason_Code	NR	NR	
Energy_Calculation_Date_Stamp	NR	O	For NSW/ACT, not required if the network is equal to "NSWCR" or "COUNTRY",
Energy_Calculation_Time_Stamp	NR	O	For NSW/ACT, not required if the network is equal to "NSWCR" or "COUNTRY",
Meter_Type	NR	NR	Placeholder will not be provided by Distributor using SA format.
Common_Factor	NR	NR	Placeholder will not be provided by Distributor using SA format.

CSVConsumptionData			
Heading	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Comment
Consumption_Litres	NR	NR	Placeholder will not be provided by Distributor using SA format.
Consumption_Factor	NR	NR	Placeholder will not be provided by Distributor using SA format.

5.3 Meter Data Verify Request (Ref No 242)

For NSW/ACT the following provides transformation guidance between section 4.1.6.1 (Meter Data Verify Request Transaction) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.7 (Meter Data Verify Request) of Participant Build Pack 5 for using the NSW/ACT format.

The initiating retailer will submit this transaction based on section 5.3 (Meter Data Verify Request) of Participant build pack 5. If the receiving distributor requires this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Remove MeterSerialNumber element.
- Convert xsi type from [GasMeterVerifyRequestWithMSNData](#) to [GasMeterVerifyRequestData](#).
- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.
- Replace content of InvestigationCode to 'Customer Query' where supplied as 'Cross Meter' or 'MDL out of alignment'.

Transaction Data Elements

TRANSACTION:		METERDATAVERIFYREQUEST	
Received From:		Retailer	
Sent To:		Distributor	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	

Checksum	M	M	Implemented as an attribute of the NMI aseXML element
InitiatorReferenceNumber	M	M	Reference number generated by the Retailer
CurrentRead/ IndexValue	M	M	
CurrentRead/ ReadDate	M	M	
ProposedRead/ IndexValue	O	O	Either none or both of these elements must be populated.
ProposedRead/ ReadDate	O	O	
InvestigationCode	M	M	In NSW/ACT, if the network is equal to "COUNTRY" or "NSWCR" the new NSW Codes of 'Cross Meter' and 'MDL Out of Alignment' are replaced with 'Customer Query' during transform process.
InvestigationDescription	O	O	Free text field that may be used to assist an investigation
MeterSerialNumber	NR	O	In NSW/ACT, if the network is equal to "COUNTRY" or "NSWCR" then required to be provided by user as per PBP5 using the xsi:type as GasMeterVerifyRequestWithMSNDData Removed during transform process.

5.4 MeterDataVerifyResponse (Ref No 243),

For NSW/ACT the following provides transformation guidance between section 4.1.6.2 (Meter Data Verify) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.4 (MeterDataVerifyResponse) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction based on section 5.4 (Meter Data Verify Response) of Participant build pack 5. If the distributor submits the transaction in the SA Market format this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Note, the xsi data type would remain as GasMeterVerifyResponseData. MeterSerialNumber element would not be present.
- **Transaction Data Elements**

TRANSACTION:		METERDATAVERIFYRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	As input in the request transaction
checksum	M	M	Implemented as an attribute of the NMI aseXML element As input in the request transaction
InitiatorReferenceNumber	M	M	As input in the request transaction
RevisedRead/ IndexValue	M	M	
RevisedRead/ ReadDate	M	M	
AdjustmentReasonCode	M	M	If = "No Change" then no adjustment is required
MeterSerialNumber	NR	O	Not Required if the network is equal to "COUNTRY" or "NSWCR". Receiver should allow for xsi type GasMeterVerifyResponseData to be received in NSW format, rather than GasMeterVerifyResponseWithMSNDData .
Event	O	O	May be repeated any number of times. The Event element will identify any errors occurring in the processing of the request record.

5.5 Account Creation (Ref No 12 and 231)

For NSW/ACT the following provides transformation guidance between section 4.1.7.1 (Account Creation) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.5 (Account Creation) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction based on section 5.5.1 (Account Creation Notification) of Participant build pack 5. If the distributor submits the transaction in the SA Market format this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Changed Data Elements
 - MeterTypeSizeCode (M to O)
 - ScheduledReadingDayNumber (M to O)
- Convert xsi type from GasStandingData to GasMultiMeterStandingData. Element locations will change as the xsi type is replaced.
- MeterPosition location moved in the schema.
- Note the following elements will not be provided.
 - MeterType (O)
 - MeterMultiplier (O)
 - NumberOfDialsOnDevice (O)
 - MeterInstallationType (O)
 - MeterMeasurementUnit(O)
 - BillingMethod (O)
 - NextScheduledReadDate (O)
 - MeterReadFrequency (O)
 - MelwayGridReference (NR)

TRANSACTION:		ACCOUNTCREATIONNOTIFICATION	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	
checksum	M	M	Implemented as an attribute of the NMI aseXML element
MeterData/Meter /MeterSerial Number	M	M	<p>Meter specific fields for multiple meters associated with the NMI to be included as a separate "MeterData/Meter" element, in the single transaction instance. MeterSerialNumber is the key identifier under each "MeterData/Meter" instance.</p> <p>If Network is NSWCR or COUNTRY, there are no NMI with multiple meters.</p>

TRANSACTION:		ACCOUNT CREATION NOTIFICATION	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
MeterData/Meter/MeterTypeSizeCode	M	O	Required if Network is NSWCR or COUNTRY
MeterData/Meter/MeterRead/Current/ IndexValue	M	M	
MeterData/Meter/MeterRead/Current/ ReadDate	M	M	
MeterData/Meter/BasicMeter/NextScheduledReadDate	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterType	NR	O	G = Gas. W = Hot Water In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterMultiplier	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterInstallationType	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR". O = Ordinary, M = Master Meter, or S = Sub-meter linked to a master meter.
MeterData/Meter/MeterReadFrequency	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterPosition	O	O	Optional data that will be provided if available. This is relocated in the structure between SA and NSW formats.
MeterData/Meter/NumberOfDevicesOnDevice	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/BasicMeter/ScheduledReadingDayNumber	M	O	Required if Network is COUNTRY or NSWCR

TRANSACTION:		ACCOUNTCREATIONNOTIFICATION	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
MeterData/ Meter/MeterMeasurementUnit	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR". M = Metric, or I = Imperial.
MeterData/ Meter/BillingMethod	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR". O = Ordinary billing, C = Central hot water system billing, or D = Deduct meter billing.
SiteData/AccessDetails	O	O	Optional data that will be provided if available
SiteData/MelwayGridReference	NR	O	Optional data that will be provided if available If Network is equal to NSWCR or COUNTRY this is not required.

5.6 Special Read (Ref 3)

5.6.1 Special Read Request

For NSW/ACT where the network is "COUNTRY" or "NSWCR" the following applies.

"The Distributor will not provide an estimated read due to no access."

For NSW/ACT the following provides transformation guidance between section 4.1.5.1 (SpecialReadRequest) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.6.1 (Special Read Request) of Participant Build Pack 5 for using the NSW/ACT format.

The initiating retailer will submit this transaction based on section 5.6 (Special Read) of Participant build pack 5. If the receiving distributor requires this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Remove MeterSerialNumber element.
- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

- Note the added usage advice for the AppointmentDetail/ Preferred/ Time element in Participant build pack 5 would not apply.

TRANSACTION:		SPECIALREADREQUEST	
Received From:		Retailer	
Sent To:		Distributor	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
actionType	M	M	"New" for new Special Read Request "Cancel" for Special Read Cancellation Implemented as an attribute of the SpecialReadRequest aseXML element.
NMI	M	M	
checksum	M	M	Implemented as an attribute of the NMI aseXML element
SpecialReadReasonCode	M	M	
MeterSerialNumber	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR". No more than one meter per MIRN.
ServiceOrderNumber	M	M	Reference number generated by the Retailer
AccessDetails	O	O	Optional free text field that may be populated at CSR discretion to assist Meter Reader in gaining access
AppointmentDetail/ Preferred/ Date	O	O	Date of appointment for Special Read. Required for new Special Read Request
AppointmentDetail/ Preferred/ Time	O	O	Optional field for input of appointment time if applicable. In NSW/ACT if the Network is equal to "COUNTRY" or "NSWCR", the usage

			notes in Participant build pack 5 would not apply.
--	--	--	--

5.6.2 Special Read Response

For NSW/ACT the following provides transformation guidance between section 4.1.5.2 (Special Read Response) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.6.2 (Special Read Response) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction based on this transaction as per transactions under Participant build pack 5. If the distributor submits the transaction in the SA Market format this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.

5.7 MeterReadInputNotification (Ref 15)

For NSW/ACT the following provides transformation guidance between section 4.1.4.1 (MeterReadInputNotification) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.7 (MeterReadInputNotification) of Participant Build Pack 5 for using the NSW/ACT format.

The initiating retailer will submit this transaction as per section 5.7 (MeterReadInputNotification) under Participant build pack 5. If the receiving distributor requires this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

5.8 Network Duos billing details Tariff V (Ref No 331), Tariff D (Ref No. 332)

For NSW/ACT the following is added to section 4.5.2 (Network Duos billing details) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets).

For NSW/ACT the Distributor may deliver Network Duos billing details to Self Contracting users using the same format of the equivalent transaction to retailers. In this case the references to 'retailer' should be taken as 'user'.

NSW/ACT (where the Network is equal to "COUNTRY" or "NSWCR") uses the same CSV content formats and CSV Data container elements of Tariff V and Tariff D as per SA in the definition, as in:

- CSVNetworkDUoSDataTariffV/ CSVData
- CSVNetworkDUoSDataTariffD/ CSVData"

For NSW/ACT the following usage provides transform guidance between section 4.5.2.1 of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and the transaction to be received by users.

The receiving retailer will receive this transaction as per the aseXML version for Participant build pack 5. If the distributor submits the transaction in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:



- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.

5.9 MIRN Discovery

5.9.1 NMIDiscoveryRequest (Ref No 280)

For NSW/ACT the following provides transformation guidance between section 4.3.2.2 (NMIDiscoveryRequest) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.9.1 (NMIDiscoveryRequest) of Participant Build Pack 5 for using the NSW/ACT format.

The initiating retailer will submit this transaction based on section 5.9.1 (NMIDiscoveryRequest) of Participant build pack 5. If the receiving distributor requires this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

TRANSACTION:		NMIDISCOVERYREQUEST	
Received From:		Retailer	
Sent To:		Distributor (280)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
JurisdictionCode	M	M	VIC: Literal "VGI" NSW Literal "NGI" to apply for NSW/ACT where network is NSWCR or COUNTRY Not currently used by the Gas Industry. Required in this transaction for convergence with current aseXML schema
Address	M	M	Contains search data in aseXML "AustralianAddressSearch" structured format.

5.9.2 NMIDiscoveryResponse (Ref No 281)

For NSW/ACT the following provides transformation guidance between section 4.3.2.3A (NMIDiscoveryResponse SA schema – r29) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.9.2 (NMIDiscoveryResponse) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction as per the aseXML schema version as used for Participant build pack 5. If the distributor submits this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Convert xsi type from GasStandingData to GasMultiMeterStandingData. Element locations will change as the xsi type is replaced.
- Note the following elements will not be provided in the final form.
 - MeterType (O)
 - MeterInstallationType (O)
 - MeterMeasurementUnit(O)
 - BillingMethod (O)
 - KPAPValue
 - SupplyPointID
- TransmissionZone and HeatingValueZone provided by AGNL will be used to populate NetworkID with the corresponding network section.
- PressureCorrectionFactor location moved in the schema.

TRANSACTION:			NMIDISCOVERYRESPONSE
Received From:			Distributor
Sent To:			Retailer (281, 284)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	
Checksum	M	M	Implemented as an attribute of the NMI aseXML element
DistributionTariff	O	O	Valid entries are "Volume" or "Demand" Required if meter is attached and a single MURN match is found. Not Required if multiple match is found.

TRANSACTION: NMIDISCOVERYRESPONSE			
Received From:		Distributor	
Sent To:		Retailer (281, 284)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
TransmissionZone	O	O	In NSW/ACT format, required if the Network is equal to "NSWCR" or "COUNTRY" and a single MIRN match is found. Not Required if multiple match is found.
HeatingValueZone	O	O	In NSW/ACT format, required if the Network is equal to "NSWCR" or "COUNTRY" and a single MIRN match is found. Not Required if multiple match is found.
CustomerCharacterisation	O	O	Required if Basic Meter is attached and a single MIRN match is found. Not Required if multiple match is found.
CustomerClassificationCode	O	O	Mandatory where provided by retailer.
CustomerThresholdCode	O	O	Not required where CustomerClassificationCode is "RES". For NSW/ACT it is: "LOW" = Business Customer with consumption from 0GJ up to 999GJ "HIGH" = Business Customer with consumption of 1000 GJ or more.
MIRNStatus	O	O	Required if a single match is found. Not Required if multiple match is found.
NetworkID	NR	O	In NSW/ACT format, required if the Network is equal to "NSWCR" or "COUNTRY" and a single MIRN match is found. This is derived during transform from the HeatingValueZone and TransmissionZone combination supplied. Not Required if multiple match is found.

TRANSACTION: NMIDISCOVERYRESPONSE			
Received From:		Distributor	
Sent To:		Retailer (281, 284)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
MeterData/Meter/MeterSerialNumber	O	O	Required if meter is attached. In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
PressureCorrectionFactor	O	NR	Relocated in structure for NSW/ACT format. Refer to MeterData/Meter/MeterRead/Current/PressureCorrectionFactor. Required (in SA format) if meter is attached and a single MIRN match is found. Not Required if multiple match is found.
MeterData/Meter/MeterStatus	O	O	If MeterStatus is set to "No Meter", then no meter is attached to the MIRN. Not Required if multiple match is found. In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
MeterData/Meter/SupplyPointCode	O	O	Required if meter is attached and a single MIRN match is found. Not Required if multiple match is found. In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
Current/ ReadDate	O	O	Required if Basic Meter is attached and a single MIRN match is found. Not Required if multiple match is found.
MeterData/Meter/MeterRead/Current/PressureCorrectionFactor	NR	O	Required (in NSW/ACT format) if meter is attached and a single MIRN match is found. Not Required if multiple match is found.

TRANSACTION: NMIDISCOVERYRESPONSE			
Received From:		Distributor	
Sent To:		Retailer (281, 284)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
MeterData/Meter/BasicMeter/NextScheduledReadDate	O	O	Required if Basic Meter is attached and a single MIRN match is found. Not Required if multiple match is found. In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
MeterReadFrequency	O	O	Required if Basic Meter is attached and a single MIRN match is found. Not Required if multiple match is found.
NextScheduledSpecialRead/ Preferred/ Date	O	O	Required if Basic Meter is attached and if there is a Special Read appointment booked against this MIRN and a single MIRN match is found.
CommunicationEquipmentPresent	O	O	Required if Interval Meter is attached and a single MIRN match is found. Not Required if multiple match is found.
ExcludedServicesCharges/ ChargeItem/ Category	O	O	Only used for Interval meters and a single MIRN match is found. Not Required if multiple match is found. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".
ExcludedServicesCharges/ ChargeItem/ Amount	O	O	Only used for Interval meters and a single MIRN match is found. Not Required if multiple match is found. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".

TRANSACTION: NMIDISCOVERYRESPONSE			
Received From:		Distributor	
Sent To:		Retailer (281, 284)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
ExcludedServicesCharges/Chargeltem/ ExpiryDate	O	O	Only used for Interval meters and a single MIRN match is found. Not Required if multiple match is found. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".
MeterData/Meter/MeterType	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/KPAValue	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/SupplyPointID	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterInstallationType	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterMeasurementUnit	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/BillingMethod	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
Address	M	M	In aseXML structured format
AdditionalDataToFollow	M	M	
Event	M	M	Set to '0' if no errors or events to report. May be repeated any number of times.

TRANSACTION: NMIDISCOVERYRESPONSE			
Received From:		Distributor	
Sent To:		Retailer (281, 284)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
ScheduledReadingDayNumber	NR	NR	
MeterTypeSizeCode	NR	NR	

XML Sample (NSW WW&T format)

```

<Header>
  <From>COUNTRYNWO</From>
  <To description="Acme PTY">ACME</To>
  <MessageID>NSWC-Msg-177410371926</MessageID>
  <MessageDate>2015-03-19T12:18:19.690+10:00</MessageDate>
  <TransactionGroup>NMID</TransactionGroup>
  <Market>NSWACTGAS</Market>
</Header>
<Transactions>
  <Transaction transactionID="NSWC-Txn-177410371926" transactionDate="2015-03-19T12:18:19.690+10:00"
initiatingTransactionID="ACMENMID_201503191303350000058995378">
    <NMIDiscoveryResponse version="r17">
      <NMISTandingData xsi:type="ase:GasMultiMeterStandingData" version="r34">
        <NMI checksum="5">5250685234</NMI>
        <MasterData>
          <CustomerCharacterisation>Metropolitan
Residential</CustomerCharacterisation>
          <CustomerThresholdCode>LOW</CustomerThresholdCode>
          <DistributionTariff>Volume</DistributionTariff>
          <HeatingValueZone>098</HeatingValueZone>
          <MIRNStatus>Commissioned</MIRNStatus>
          <NetworkID>NSWBOMBALLA</NetworkID>
          <TransmissionZone>99</TransmissionZone>
        </MasterData>
        <MeterData>
          <Meter xsi:type="ase:GasMultiMeterStandingDataType">
            <MeterRead>
              <Current xsi:type="ase:GasMultiMeterReadDataType">
                <ReadDate>2015-02-20</ReadDate>

          </Current>
            </MeterRead>
            <MeterReadFrequency>Bi Monthly</MeterReadFrequency>
            <MeterSerialNumber>M1234</MeterSerialNumber>
            <MeterStatus>Turned on</MeterStatus>
            <SupplyPointCode>Basic</SupplyPointCode>
            <BasicMeter>
              <NextScheduledReadDate>2015-04-
24</NextScheduledReadDate>
            </BasicMeter>
          </Meter>
        </MeterData>
        <SiteData>
          <Address>
            <AustralianAddress>
              <StructuredAddress>
                <House>

                <HouseNumber>6</HouseNumber>

              </House>
              <Lot>

                <LotNumber>206</LotNumber>

              </Lot>
              <Street>

                <StreetName>GEORGE</StreetName>
                <StreetType>CRES</StreetType>

              </Street>
            </StructuredAddress>
            <SuburbOrPlaceOrLocality>SOMEWHERE</SuburbOrPlaceOrLocality>
            <StateOrTerritory>NSW</StateOrTerritory>
            <PostCode>2101</PostCode>
          </AustralianAddress>
        </Address>
        </SiteData>
        <AdditionalDataToFollow>false</AdditionalDataToFollow>
      </NMISTandingData>
    </NMIDiscoveryResponse>
  </Transaction>
</Transactions>

```



```

        </NMISstandingData>
        <Event>
            <Code>0</Code>
        </Event>
    </NMIDiscoveryResponse>
</Transaction>
</Transactions>

```

5.9.3 NMISstandingDataResponse (Ref No 284)

For NSW/ACT the following provides transformation guidance between section 4.3.2.6 (NMISstandingDataResponse) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.9.3 (NMISstandingDataResponse) of Participant Build Pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction as per the aseXML schema version as used for Participant build pack 5. If the distributor submits this in the SA Market format, this would be intercepted and transformed at the Gas FRC Hub in the following ways:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Convert xsi type from GasStandingData to GasMultiMeterStandingData. Element locations will change as the xsi type is replaced.
- Note the following elements will not be provided in the final form.
 - MeterType (O)
 - MeterInstallationType (O)
 - MeterMeasurementUnit(O)
 - BillingMethod (O)
 - KPAPValue
 - SupplyPointID
- TransmissionZone and HeatingValueZone provided by AGNL will be used to populate NetworkID with the corresponding network section.
- PressureCorrectionFactor location moved in the schema.

TRANSACTION:			NMISTANDINGDATARESPONSE
Received From:			Distributor
Sent To:			Retailer (281, 284)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	
Checksum	M	M	Implemented as an attribute of the NMI aseXML element
DistributionTariff	O	O	Required if meter is attached Valid entries are "Volume" or "Demand"
TransmissionZone	M	O	In NSW/ACT, required if the Network is equal to "NSWCR" or "COUNTRY".
HeatingValueZone	M	O	In NSW/ACT, required if the Network is equal to "NSWCR" or "COUNTRY".
CustomerCharacterisation	O	O	Required if Basic Meter is attached.
CustomerClassificationCode	O	O	Mandatory where provided by retailer.
CustomerThresholdCode	O	O	Not required where CustomerClassificationCode is "RES". For NSW/ACT it is "LOW" = Business Customer with consumption from 0GJ up to 999GJ "HIGH" = Business Customer with consumption of 1000 GJ or more.
MIRNStatus	M	M	If "Commissioned" indicates that a meter is attached. If so meter data is to be provided.
NetworkID	NR	O	In NSW/ACT, required if the Network is equal to "NSWCR" or "COUNTRY".

TRANSACTION:			NMISTANDINGDATARESPONSE
Received From:			Distributor
Sent To:			Retailer (281, 284)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
			This is derived during transform from the HeatingValueZone and TransmissionZone combination supplied.
MeterData/Meter/ MeterSerialNumber	O	O	Required if meter is attached In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
PressureCorrectionFactor	O	NR	Relocated in structure for NSW/ACT format. Refer to MeterData/Meter/MeterRead/Current/PressureCorrectionFactor. Required (in SA format) if meter is attached.
MeterData/Meter/ MeterStatus	O	O	Required if meter is attached In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
MeterData/Meter/ SupplyPointCode	O	O	Required if meter is attached In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
Current/ ReadDate	O	O	Required if Basic Meter is attached.
MeterData/Meter/ MeterRead/Current/ PressureCorrectionFactor	NR	O	Required if meter is attached
MeterData/Meter/BasicMeter/ NextScheduledReadDate	O	O	Required if Basic Meter is attached.

TRANSACTION:			NMISTANDINGDATARESPONSE
Received From:			Distributor
Sent To:			Retailer (281, 284)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
			In NSW/ACT format, change to MeterData/Meter hierarchy as per GasMultiMeterStandingData xsi type.
MeterReadFrequency	O	O	Required if Basic Meter is attached.
NextScheduledSpecialRead/ Preferred/ Date	O	O	Optional if Basic Meter is attached. Populated if there is a Special Read appointment booked against this MIRN.
CommunicationEquipmentPresent	O	O	Required if Interval Meter is attached.
ExcludedServicesCharges/ ChargeItem/ Category	O	O	Only used for Interval meters. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".
ExcludedServicesCharges/ ChargeItem/ Amount	O	O	Only used for Interval meters. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".
ExcludedServicesCharges/ ChargeItem/ ExpiryDate	O	O	Only used for Interval meters. This information may be provided in a subsequent NMIDiscoveryResponse message if the AdditionalDataToFollow element is set to "true".
MeterData/Meter/MeterType	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".

TRANSACTION:			NMISTANDINGDATARESPONSE
Received From:			Distributor
Sent To:			Retailer (281, 284)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
MeterData/Meter/KPAValue	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/SupplyPointID	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterMeasurementUnit	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/MeterInstallationType	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
MeterData/Meter/BillingMethod	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR".
Address	M	M	In aseXML structured format
AdditionalDataToFollow	M	M	
Event	M	M	Set to '0' if no errors or events to report. May be repeated any number of times.
ScheduledReadingDayNumber	NR	NR	
MeterTypeSizeCode	NR	NR	

The transaction is implemented as the NMISstandingDataResponse transaction in aseXML utilising the xsi:type="ase:GasMultiMeterStandingData" construct for the NMISstandingData element (see section 5.9.2 of Participant Build Pack 6).

XML Sample (NSW WW&T format)

```
<Header>
  <From>COUNTRYNWO</From>
  <To description="Acme PTY">ACME</To>
  <MessageID>NSWC-Msg-177410371926</MessageID>
  <MessageDate>2015-03-19T12:18:19.690+10:00</MessageDate>
```

```

    <TransactionGroup>NMID</TransactionGroup>
    <Market>NSWACTGAS</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="NSWC-Txn-177410371926" transactionDate="2015-03-19T12:18:19.690+10:00"
    initiatingTransactionID="ACMENMID_201503191303350000058995378">
      <NMIStandingDataResponse version="r4">
        <NMIStandingData xsi:type="ase:GasMultiMeterStandingData" version="r34">
          <NMI checksum="5">5250685234</NMI>
          <MasterData>
            <CustomerCharacterisation>Metropolitan
            Residential</CustomerCharacterisation>
            <CustomerThresholdCode>LOW</CustomerThresholdCode>
            <DistributionTariff>Volume</DistributionTariff>
            <HeatingValueZone>098</HeatingValueZone>
            <MIRNStatus>Commissioned</MIRNStatus>
            <NetworkID>NSWBOMBALLA</NetworkID>
            <TransmissionZone>99</TransmissionZone>
          </MasterData>
          <MeterData>
            <Meter xsi:type="ase:GasMultiMeterStandingDataType">
              <MeterRead>
                <Current xsi:type="ase:GasMultiMeterReadDataType">
                  <ReadDate>2015-02-20</ReadDate>
                  <PressureCorrectionFactor>0.9</PressureCorrectionFactor>
                </Current>
                </MeterRead>
                <MeterReadFrequency>Bi Monthly</MeterReadFrequency>
                <MeterSerialNumber>M1234</MeterSerialNumber>
                <MeterStatus>Turned on</MeterStatus>
                <SupplyPointCode>Basic</SupplyPointCode>
                <BasicMeter>
                  <NextScheduledSpecialRead>
                    <Preferred>
                      <Date>2002-02-01</Date>
                    </Preferred>
                  </NextScheduledSpecialRead>
                </BasicMeter>
              </MeterData>
              <SiteData>
                <Address>
                  <AustralianAddress>
                    <StructuredAddress>
                      <House>
                        <HouseNumber>6</HouseNumber>
                      </House>
                      <Lot>
                        <LotNumber>206</LotNumber>
                      </Lot>
                      <Street>
                        <StreetName>GEORGE</StreetName>
                        <StreetType>CRES</StreetType>
                      </Street>
                    </StructuredAddress>
                  </AustralianAddress>
                  <SuburbOrPlaceOrLocality>SOMEWHERE</SuburbOrPlaceOrLocality>
                  <StateOrTerritory>NSW</StateOrTerritory>
                  <PostCode>2101</PostCode>
                </Address>
              </SiteData>
              <AdditionalDataToFollow>>false</AdditionalDataToFollow>
            </NMIStandingData>
          </Event>
          <Code>0</Code>
        </MasterData>
      </NMIStandingDataResponse>
    </Transaction>
  </Transactions>

```

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```
</Event>
</NMIStandingDataResponse>
</Transaction>
</Transactions>
```

5.10 Refresh of New Street Listing for MIRN Discovery (Ref 298)

For NSW/ACT where the network is COUNTRY or NSWCR, this is defined as per the 'Refresh of New Street Listing for MIRN Discovery (T298)' section in Participant Build pack 5.

5.10.1 New Street listing CSV file upload via MIBB

For NSW/ACT where the network is COUNTRY or NSWCR, the file name format is defined in section 5.10.1 of Participant Build pack 5.

5.10.2 New Street Listing report

For NSW/ACT where the network is COUNTRY or NSWCR, this report is described in section 5.10.2 of Participant Build pack 5.

5.11 Complete MIRN Listing (Ref 299)

The Distributor must make available to Retailers a listing of all distribution metering supply points that have a MIRN assigned and a MIRN status of either Registered (up stand installed), Commissioned (meter installed) or Decommissioned (meter removed) in the encrypted format described in the AEMO Specification Pack document titled FRC B2B System Interface Definitions (refer SA RMP clause 5.2.2).

5.12 Customer Administration and Transfer

For NSW/ACT where the network is COUNTRY or NSWCR the following differences to Participant Build Pack 5 (for users) apply.

- No alternative transfer date process.
- All Transfers will only be completed where an actual read has been obtained and processed to market.

For NSW/ACT where the network is COUNTRY or NSWCR the following differences to apply for distributors operating to the SA/WA Interface Control Document.

- No Notice of Read Failure (triggered when estimate received instead of actual) issued to the Distributor.
- No objection for error correction by Distributor.
- No standing data request to Distributor (as specified in Participant Build Pack 5).

5.12.1 Processing Change Request

In NSW/ACT where the network is "NSWCR" or "COUNTRY" the following applies in contrast to section 5.12.1 (Processing Change Request) of Participant Build Pack 5.

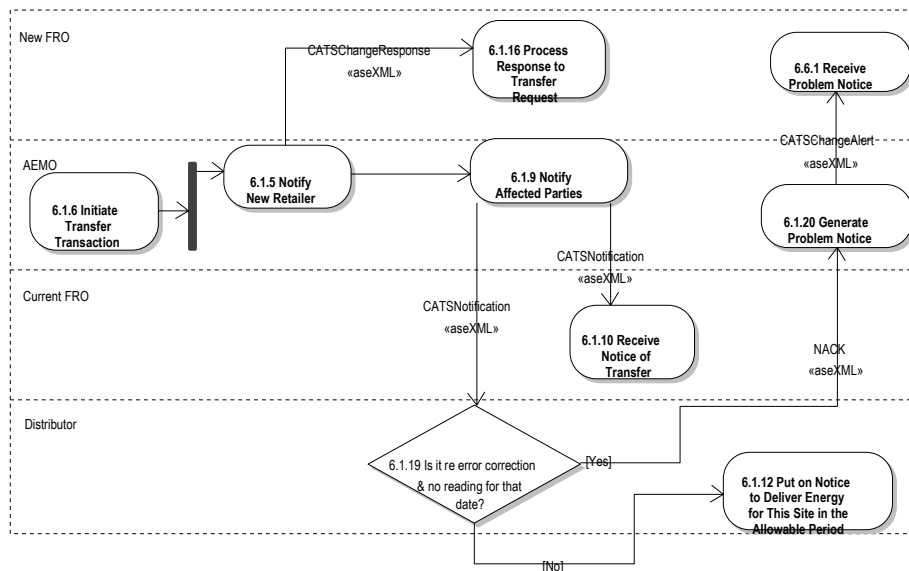


FIGURE 5-1. PROCESSING TRANSFER REQUEST ACTIVITY DIAGRAM

5.12.1.1 Initiate Transfer Request Transaction (Ref 170)

For NSW/ACT where the network is equal to COUNTRY or NSWCR, the following is added to section 5.12.1.1 of Participant Build pack 5.

Transfer of interval metered NMI's are not valid under the SA Retail Market Procedures for "Move ins", and by extension to NSW/ACT where the network is equal to COUNTRY or NSWCR. Market systems are however exempted from enforcing this restriction as the scenario is operationally unlikely to occur. In the event such a transfer request is raised, the Distributor will handle the issue with AEMO and the user manually.

5.12.1.2 Transfer Error Correction Request (Ref 2135)

For NSW/ACT refer to section 6.5 (Transfer Error Correction Request) of Participant Build pack 5.

5.12.2 CATS Notification (Ref 183, 184, 185,226,227,228, 229, 232,233,234,235)

5.12.2.1 Notification of Transfer Transaction

For NSWACT where the network is "NSWCR" or "COUNTRY" this will be sent as per section 5.12.2.1 of Participant Build pack 5.

If the receiving distributor requires this in the SA Market Format as per section 8.1.7 (CATSNotification Transaction – "REQUESTED" Variant) of the SA/WA Interface Control

Document, the following provides transformation guidance from section 5.12.2.1 (Notification of Transfer Transaction) of Participant Build Pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - ChangeReasonCode (Translation of SA error correction code 0003 with NSW error correction code 0004)

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		Current FRO (183), Affected FRO (184), Distributor (185)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Role	M	M	The role assigned to the recipient <i>'CDB' in the NSW format becomes 'NO' in the SA format (if transform required).</i>
RoleStatus	M	M	"N" for a new role, "C" for a current role
Participant	M	M	Contains the initiator of the Change Request when this transaction is sent to the Distributor or Affected FRO, and xsi:nil="true" when the transaction is sent to the Current FRO.
RequestID	M	M	The unique ID assigned by AEMO to the Change Request
ChangeStatusCode	M	M	The current status of the change request <i>"REQ"</i>
ChangeReasonCode	M	M	From change request <i>For error corrections: '0004' in the NSW format becomes '0003' in the SA format.</i>
ProposedDate	M	M	From change request
MeterReadTypeCode	NR	NR	
ActualEndDate	NR	NR	
InitiatingRequestID	NR	NR	Information already in RequestID

NMI	M	M	From change request
Checksum	M	M	An attribute of NMI

5.12.2.2 Update Notification Transaction

For NSWACT where the network is “NSWCR” or “COUNTRY” the alternative transfer date process is not used.

5.12.2.3 Transfer Request State Change Notification Transaction

For NSWACT where the network is “NSWCR” or “COUNTRY” this will be sent as per section 5.12.2.3 of Participant Build pack 5.

If the receiving distributor requires this in the SA Market Format as per section 8.1.8 (CATSNotification Transaction – “PENDING” Variant) of the SA/WA Interface Control Document, the following provides transformation guidance from section 5.12.2.3 (Transfer Request State Change Notification Transaction) of Participant Build pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - ChangeReasonCode (Translation of SA error correction code 0003 with NSW error correction code 0004)

TRANSACTION:			CATSNOTIFICATION
Received From:			AEMO
Sent To:			Current FRO (233), Affected FRO (235), Distributor (234) New FRO (232),
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Role	M	M	The role assigned to the recipient <i>'CDB' in the NSW format becomes 'NO' in the SA format (if transform required).</i>
RoleStatus	M	M	"N" for a new role, "C" for a current role
Participant	M	M	(i) contains the initiator (New FRO) of the Change Request when sent to Distributor or the Current FRO or the Affected FRO, or (ii) contains the Current FRO when sent to the New FRO
RequestID	M	M	The unique ID assigned by AEMO to the Change Request
ChangeStatusCode	M	M	The current status of the change request <i>"PEN"</i>
ChangeReasonCode	M	M	From change request <i>For error corrections: '0004' in the NSW format becomes '0003' in the SA format.</i>
ProposedDate	M	M	From change request
MeterReadTypeCode	NR	NR	
ActualEndDate	NR	NR	

InitiatingRequestID	NR	NR	Information already in RequestID
NMI	M	M	From change request
checksum	M	M	An attribute of NMI

5.12.2.4 Notice of Transfer Transaction

For NSWACT where the network is “NSWCR” or “COUNTRY” this will be sent as per section 5.12.2.4 of Participant Build pack 5.

If the receiving distributor requires this in the SA Market Format as per section 8.1.11 (CATSNotification Transaction – “COMPLETED” Variant) of the SA/WA Interface Control Document, the following provides transformation guidance from section 5.12.2.4 (Notice of Transfer Transaction) of Participant Build pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - ChangeReasonCode (Translation of SA error correction code 0003 with NSW error correction code 0004)

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		New FRO (226) Current FRO (227) Affected FRO (228) Distributor (229)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Role	M	M	The role assigned to the recipient <i>'CDB' in the NSW format becomes 'NO' in the SA format (if transform required).</i>
RoleStatus	M	M	“N” for a new role, “C” for a current role

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		New FRO (226) Current FRO (227) Affected FRO (228) Distributor (229)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Participant	M	M	(i) contains the initiator (New FRO) of the Change Request when sent to Distributor or the Current FRO or the Affected FRO, or (ii) contains the Current FRO when sent to the New FRO
RequestID	M	M	The ID assigned by AEMO to the Change Request.
ChangeStatusCode	M	M	The current status of the change request "COM" or "RCO" (if accelerated completion during ROLR event)
ChangeReasonCode	M	M	From change request For error corrections: '0004' in the NSW format becomes '0003' in the SA format.
ActualChangeDate	M	M	The actual date of transfer
MeterReadTypeCode	NR	O	In NSW/ACT, not required if the Network is equal to "COUNTRY" or "NSWCR", as transfers are only allowed on actual reads.
ActualEndDate	NR	NR	
InitiatingRequestID	NR	NR	Information already in RequestID
NMI	M	M	From change request

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		New FRO (226) Current FRO (227) Affected FRO (228) Distributor (229)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
checksum	M	M	An attribute of NMI

5.12.2.5 Objection Notification Transaction

For NSWACT where the network is "NSWCR" or "COUNTRY" this will be sent as per the NSW WW&T specification below. This is marked in Participant Build Pack 5 as unchanged from Participant Build Pack 2.

If the receiving distributor requires this in the SA Market Format as per section 8.1.9 (CATSNotification Transaction – "OBJECTION" Variant) of the SA/WA Interface Control Document, the following provides transformation guidance from the NSW WW&T format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes).
 - 'Objection' block Role element handling (Translation of SA codes with NSW codes). Note "CFRO" to translate to "CU" rather than "USER".
 - ChangeReasonCode (Translation of SA error correction code 0003 with NSW error correction code 0004)
 - Objectioncode (Translation to SA objection code "DECLINED" from NSW objection codes "DBCONTR", "HAULAGE", "NOTERROR")

TRANSACTION:			CATSNOTIFICATION
Received From:			AEMO
Sent To:			Prospective FRO (193) Distributor (194) Current Fro (195A)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Role	M	M	The role assigned to the recipient <i>'CDB' in the NSW format becomes 'NO' in the SA format (if transform required).</i>
RoleStatus	M	M	"N" for a new role, "C" for a current role
Participant	M	M	The initiator of the Change Request. In the case of a raised objection, all participants will be notified.
RequestID	M	M	The unique ID assigned by AEMO to the Change Request
ChangeStatusCode	M	M	The current status of the change request <i>"OBJ" or "REQ"</i>
ChangeReasonCode	M	M	From change request <i>For error corrections: '0004' in the NSW format becomes '0003' in the SA format.</i>
ProposedDate	M	M	From change request
InitiatingRequestID	NR	NR	Information already in RequestID
NMI	M	M	From change request
checksum	M	M	An attribute of NMI
Participant	M	M	Name of Objecting Participant

TRANSACTION:			CATSNOTIFICATION
Received From:			AEMO
Sent To:			Prospective FRO (193) Distributor (194) Current Fro (195A)
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
ObjectionID	M	M	The unique ID assigned by AEMO to the Objection Request
ObjectionAction	M	M	"Raised" or "Withdrawn"
InitiatingRequestID	M	M	A copy of the InitiatingRequestID above
Role	M	M	Role of the Objecting Participant 'CDB' in the NSW format becomes 'NO' in the SA format (if transform required). 'CFRO' in the NSW format becomes 'CU' in the SA format (if transform required).
ObjectionCode	M	M	Valid objection reason code NSW valid codes for CDB/NO Role are 'DBCONTR' or 'HAULAGE'. NSW valid code for CFRO/USER Role is 'NOTERROR'. All NSW codes translate to 'DECLINED' for SA valid codes. The context is based on the Role (of the objecting participant) element.
ObjectionDate	M	M	The date the objection was recorded in CATS (and therefore the commencement of the objection period).

5.12.2.6 Objection Withdrawal Notification Transaction

An aseXML CATSNotification transaction as per Section 5.12.2.5 (Objection Notification Transaction) of Participant Build pack 6 will be used for notifying all Organisations assigned to Roles for the Change Request.

5.12.2.7 Withdrawal Transfer Notice (Notification)

An aseXML CATSNotification transaction as per Section 5.12.2.8 (Transfer Cancellation Transaction) of Participant Build pack 6 will be used for notifying all Organisations assigned to Roles for the Change Request.

5.12.2.8 Transfer Cancellation Transaction

For NSWACT where the network is “NSWCR” or “COUNTRY” the following describes the NSW/ACT format of Transfer Cancellation Transaction (as CATSNotification) and provides transformation guidance to the SA Market Format as per section 8.1.10 (CATSNotification Transaction – “CANCELLED” Variant) of the SA/WA Interface Control Document if required by the receiving distributor.

The transform includes the following points:

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - ChangeReasonCode (Translation of SA error correction code 0003 with NSW error correction code 0004)

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		New FRO (196, 222, 206A) Current FRO (197, 223, 206) Affected FRO (207) Distributor (198, 224, 208)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
Role	M	M	The role assigned to the recipient 'CDB' in the NSW format becomes 'NO' in the SA format (if transform required). 'CFRO' or 'NFRO' in the NSW format.

TRANSACTION:		CATSNOTIFICATION	
Received From:		AEMO	
Sent To:		New FRO (196, 222, 206A) Current FRO (197, 223, 206) Affected FRO (207) Distributor (198, 224, 208)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
RoleStatus	M	M	"N" for a new role, "C" for a current role
Participant	M	M	Contains the initiator of the Change Request when notification is sent to New FRO and Distributor, and xsi:nil="true" for the Current FRO.
RequestID	M	M	The unique ID assigned by AEMO to the Change Request
ChangeStatusCode	M	M	The current status of the Change Request "CAN" or "RCA" (if accelerated cancellation during ROLR event)
ChangeReasonCode	M	M	From change request For error corrections: '0004' in the NSW format becomes '0003' in the SA format.
ProposedDate	M	M	From change request
NMI	M	M	From change request
checksum	M	M	An attribute of NMI

5.12.3 Input Objection

For NSW/ACT the following applies rather than those as listed in section 4.1.7 (Input Objection) of the Interface Definition (Participant Build Pack 2).

The Current FRO or Distributor sending an Objection Request to AEMO triggers the Input Objection scenario.

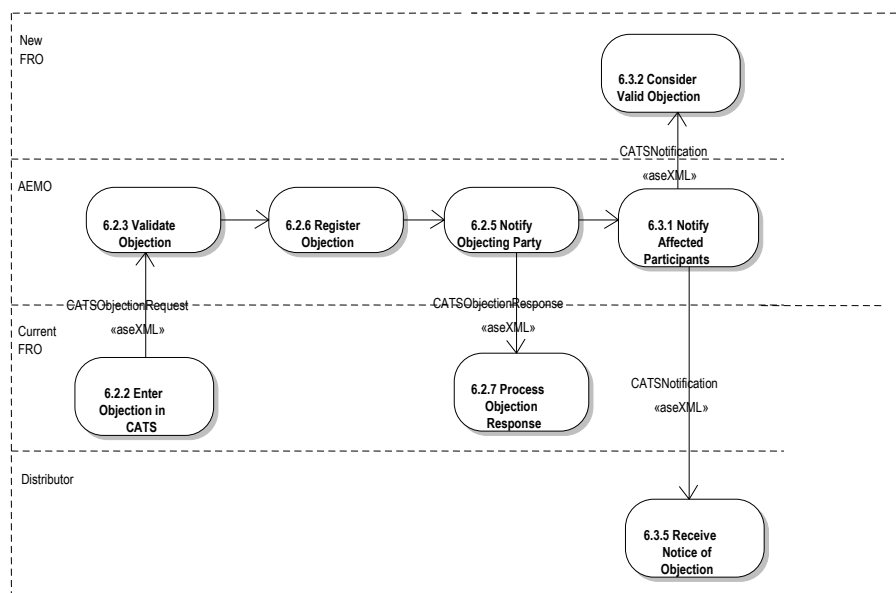


FIGURE 4-11. INPUT OBJECTION ACTIVITY DIAGRAM (FOR SCENARIO OF CFRO RAISING THE OBJECTION)

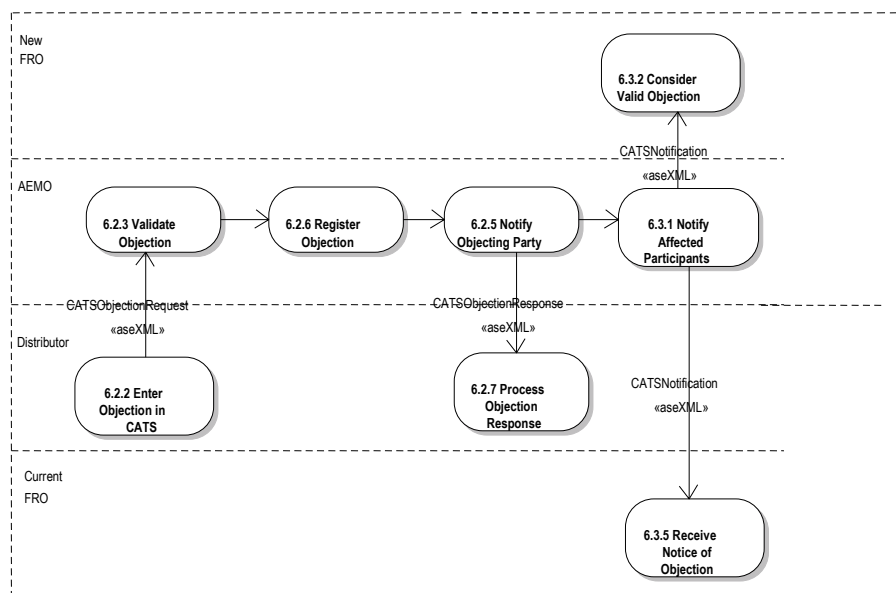


FIGURE 4-11A. INPUT OBJECTION ACTIVITY DIAGRAM (FOR SCENARIO OF DISTRIBUTOR RAISING THE OBJECTION)

AEMO performs validation of the request. When the validation is completed, AEMO sends a CATSObjectionResponse transaction to the objection sender (Current FRO or Distributor). Then, following the completion of the processing, AEMO sends CATSNotification transactions to the Roles for the Change Request.

The following sequence diagram represents a successful scenario, i.e. process flow for a valid objection. In the case of failed validation, no notifications will be generated.

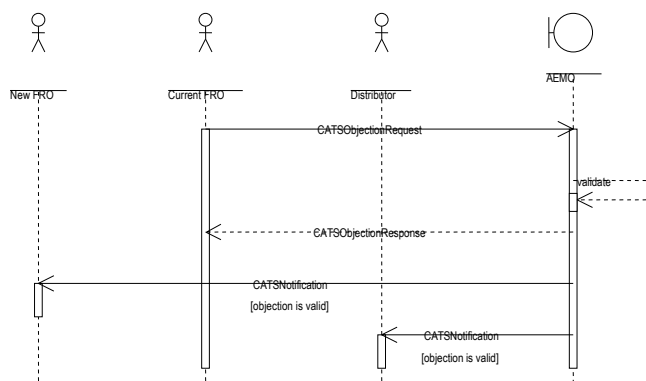


FIGURE 4-12. INPUT OBJECTION SEQUENCE DIAGRAM (FOR SCENARIO OF CFRO RAISING THE OBJECTION)

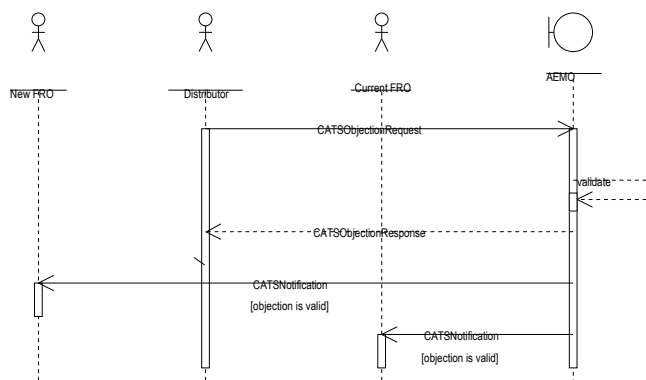


FIGURE 4-12A. INPUT OBJECTION SEQUENCE DIAGRAM (FOR SCENARIO OF DISTRIBUTOR RAISING THE OBJECTION)

ID	ASEXML TXN	TRANSACTION DEFINITION TABLE	FROM OBJECT	TO OBJECT	PROCESS FLOW
1	CATSOBJECTION Request	Objection	Current FRO	AEMO	6.2.2 -> 6.2.3
1	CATSOBJECTION Request	Objection	Distributor	AEMO	6.2.2 -> 6.2.3
2	CATSOBJECTION Response	Objection Response	AEMO	Current FRO (if objection raised by Distributor)	6.2.5 -> 6.2.7
3	CATSOBJECTION Response	Objection Response	AEMO	Distributor (if objection raised by Current FRO)	6.2.5 -> 6.2.7
4	CATSNOTIFICATION	Objection Notification	AEMO	New FRO	6.3.1 -> 6.3.2
5	CATSNOTIFICATION	Objection Notification	AEMO	Distributor (if objection raised by Current FRO)	6.3.1 -> 6.3.5a
6	CATSNOTIFICATION	Objection Notification	AEMO	Current FRO (if objection raised by Distributor)	6.3.1 -> 6.3.5

The following sections describe in details aseXML transactions involved in the objection input processing.

5.12.3.1 Objection Transaction

For NSWACT where the network is “NSWCR” or “COUNTRY” this will be received as per section 5.12.3.1 of Participant Build pack 5.

If the sending distributor submits this in the SA Market Format as per section 8.1.12.1 (CATS Objection Request) of the SA/WA Interface Control Document, the following provides transformation guidance from section 5.12.3.1 (Objection Transaction) of Participant Build Pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - Objectioncode (Translation of SA objection code “DECLINED” with NSW objection codes “DBCONTR”, “HAULAGE”, “NOTERROR”)

TRANSACTION:		CATSOBJECTIONREQUEST	
Received From:		Current FRO (187) Distributor (2137)	
Sent To:		AEMO	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
InitiatingRequestID	M	M	The ID assigned by AEMO to the Change Request that is being updated
Role	M	M	Role of the objecting party ‘CDB’ in the NSW format translates from ‘NO’ in the SA format (if transform required).
ObjectionCode	M	M	Must be a valid objection reason code. NSW valid codes for CDB/NO Role are ‘DBCONTR’ or ‘HAULAGE’. NSW valid code for CFRO/USER Role is ‘NOTERROR’. All NSW codes translate from ‘DECLINED’ for SA valid codes. The context is based on the Role element. In the case of the Distributor sending the Objection request in SA format, the default translation will be to ‘DBCONTR’ in NSW format.

5.12.3.2 Objection Response Transaction

For NSW/ACT where the network is “NSWCR” or “COUNTRY” refer to section 5.12.3.2 of Participant Build pack 5 for the relevant specification.

If the receiving distributor requires this in the SA Market format as per section 8.1.13 of the SA/WA Interface Control Document, the following provides transformation guidance from section 5.12.3.2 (Objection Response Transaction) of Participant Build pack 5.

- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

TRANSACTION:		CATSOBJECTIONRESPONSE	
Received From:		AEMO	
Sent To:		Current FRO (187A) Distributor (2138)	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
ObjectionID	M	M	The ID assigned by AEMO to the Objection Request.
Event	M	M	Set to “0”
class	M	O	Attribute of Event. For NSW/ACT where network is COUNTRY or NSWCR, to be populated with “Application” when sent to the distributor. Note: Although optional in the schema, must be set to avoid default value being used
severity	M	O	Attribute of Event. For NSW/ACT where network is COUNTRY or NSWCR, to be populated with “Information” when sent to the distributor. Note: Although optional in the schema, must be set to avoid default value being used

5.12.4 Clear Objection

5.12.4.1 Withdrawal Objection Notice Transaction

For NSW/ACT where the network is “NSWCR” or “COUNTRY” refer to section 5.12.4.1 (Withdrawal Objection Notice Transaction) of Participant Build pack 5 for the relevant specification.

If the receiving distributor submits this in the SA Market Format as per section 8.1.14 (CATS Objection Withdrawal Transaction) of the SA/WA Interface Control Document for using the SA format, the following provides transformation guidance to section 5.12.4.1 (Withdrawal Objection Notice Transaction) of Participant Build Pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA codes with NSW codes)
 - Objectioncode (Translation of SA objection code “DECLINED” with NSW objection codes “DBCONTR”, “HAULAGE”, “NOTERROR”)

TRANSACTION:		CATSOBJECTIONWITHDRAWAL
Received From:		Objecting (Current) FRO Objecting Distributor
Sent To:		AEMO
Data Element	Mandatory / Optional / Not Required	Usage
ObjectionID	M	The ID assigned by AEMO to the Objection Request.
InitiatingRequestID	M	The ID assigned by AEMO to the Change Request.
Role	M	Role initiating the withdrawal ‘CDB’ in the NSW format becomes ‘NO’ in the SA format (if transform required).
ObjectionCode	M	Valid Objection Reason Code NSW valid codes for CDB/NO Role are ‘DBCONTR’ or ‘HAULAGE’. NSW valid code for CFRO/USER Role is ‘NOTERROR’. All NSW codes translate to ‘DECLINED’ for SA valid codes. The context is based on the Role element. In the case of the Distributor sending

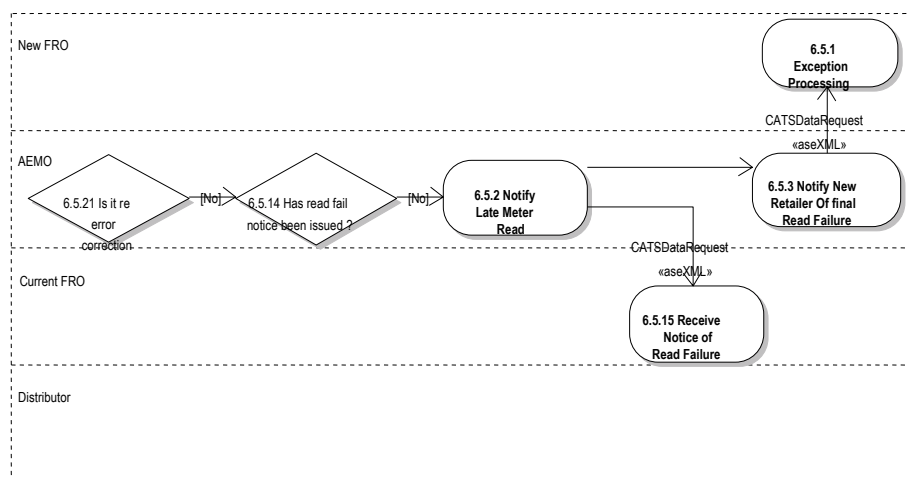
		the Objection request in SA format, the default translation will be to 'DBCONTR' in NSW format.
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5.12.5 Alternative Transfer Date Transaction (Ref 214)

For NSW/ACT where the network is "NSWCR" or "COUNTRY" the alternative transfer date process is not used.

5.12.6 Notice of Read Failure

For NSW/ACT where the network is COUNTRY or NSWCR, the following applies.



For NSW/ACT where the network is "NSWCR" or "COUNTRY", in the event of a Notice of Read Failure no estimated read will be provided and the transfer request would eventually cancel if no actual read in the allowable window can be provided.

TRANSACTION DEFINITION TABLE CROSS- REFERENCE	210	NOTICE OF READ FAILURE (TO CURRENT FRO)
	211	NOTICE OF READ FAILURE (TO NEW FRO)
Trigger	Transfer notice	
Pre-conditions	A valid Transfer Request has been received	

<i>Post-conditions</i>	Data request is delivered to the New FRO, Current FRO .
<i>Transaction acknowledgment specific event codes</i>	3040

This data request transaction serves as a Notice of Read Failure, which will be delivered to Organisations assigned to a Role for the Change Request, [except for the Distributor](#).

The following data elements are to be supplied with this transaction:

TRANSACTION: CATSDATAREQUEST		
Received From: AEMO		
Sent To: Current FRO (210) New FRO (211)		
Data Element	Mandatory / Optional / Not Required	Usage
Role	M	The role responsible for delivering data
RoleStatus	M	"N" for a new role, "C" for a current role
InitiatingRequestID	M	The unique ID assigned by AEMO to the Change Request
ActualChangeDate	O	Mandatory if AustralianPostCode, BaseLoad and TemperatureSensitivityFactor and MIRNAssignmentDate not present. For NSW/ACT where the network is COUNTRY or NSWCR this is required as there is no Standing data request. (Note: If present indicates Meter Read data is required).If present set to xsi:nil="true"
NMI	M	
checksum	M	An attribute of NMI
AustralianPostCode	O	For NSW/ACT where the network is COUNTRY or NSWCR these elements are not required as there is no Standing data request.
BaseLoad	O	
TemperatureSensitivityFactor	O	
MIRNAssignmentDate	O	
		Mandatory if ActualChangeDate not present (Note: If present indicates Standing Data required). If present set to xsi:nil="true".

5.12.7 CATSChangeAlert transaction

For NSW/ACT where the network is “NSWCR” or “COUNTRY” refer to Participant Build Pack 5, and by extension the section 4.1.11 (Delivering Problem Notice) of Participant Build Pack 2 but with the following exclusion:

- In NSW/ACT where the network is “NSWCR” or “COUNTRY” the Distributor will not send a CATSChangeAlert to AEMO, as is reflected in section 8.1.15 (CATSChangeAlert Transaction) of the SA/WA Interface Control Document.

5.13 Service Orders

For NSWACT where the network is COUNTRY or NSWCR, Service Order processes as a whole will follow section 4.2 (Service Orders) of the B2B Interface Definition (For the SA and WA Gas Retail Markets), and by extension the SA DEFINITION AND USAGE as described on the Job Enquiry Codes sheet of Attachment A2 Participant Build Pack 1 (Process Flow table of transactions).

5.13.1 ServiceOrderRequest

The initiating retailer will submit this transaction as per section 5.13.1 (ServiceOrderRequest) of Participant build pack 5. If the receiving distributor requires this in the SA Market Format as per section 4.2.3.4 (ServiceOrderRequest) of the B2B Interface Definition (For the SA and WA Gas Retail Markets) the following provides transformation guidance from section 5.13.1 (ServiceOrderRequest) of Participant Build pack5:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Note the following elements will not be provided in the final form.
 - Quote_Reference
 - Connection_Type
 - PlumberContactDetails/PersonName
 - PlumberContactDetails/PersonPhone
 - MeterSerialNumber

TRANSACTION:		SERVICEORDERREQUEST	
Received From:		Retailer	
Sent To:		Distributor	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
actionType	M	M	<p>"New" for New Service Order</p> <p>"Cancel" for Service Order Cancellation</p> <p>Implemented as an attribute of the ServiceOrderRequest aseXML element.</p>
NMI	O	O	<p>See Spreadsheet Job Enquiry Codes to determine whether this element is required or not.</p> <p>An exception applies to MFX where the customer has been provided with a MIRN by the distributor after a 'customer initiated' new connection. In that case the NMI should be used instead of Address. The Special Instructions element would require the corresponding Address to allow validation with the MIRN.</p>
Checksum	O	O	Required if NMI is populated. Implemented as an attribute of the NMI aseXML element
ServiceOrder/ Address	O	O	<p>Required if NMI is not populated, otherwise Not Required</p> <p>Implemented in the aseXML "Address" structured format.</p>
JobEnquiryCode	M	M	Used by Distributor to determine work requirement and priority
ServiceOrderNumber	M	M	Reference number generated by the Retailer
AccessDetails	O	O	Optional field that may be populated at CSR discretion
MelwayGridReference	O	O	<p>Optional field that may be populated at CSR discretion. In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY"</p> <p>May contain an appropriate map reference.</p>

ContactDetail/ PersonName	O	O	Should be populated if available. Implemented in the aseXML "PersonName" structured format Not to be retained in any Distributor system. Required for an SCR if the network is equal to "NSWCR" or "COUNTRY" unless the Plumber's or Builder's name is provided in the SORDSpecialComments /CommentLine.
ContactDetail/ PhoneNumber	O	O	Should be populated if available. Implemented in the aseXML "AustralianPhoneNumber" structured format. Not to be retained in any Distributor system Required for an SCR if the network is equal to "NSWCR" or "COUNTRY" unless the Plumber's or Builder's Phone Number is provided in the SORDSpecialComments /CommentLine.
AppointmentDetail/ Preferred/ Date	M	M	
AppointmentDetail/ Preferred/ Time	O	O	Optional field for input of appointment time if applicable
SORDSpecialInstructions/ CommentLine	O	O	Optional field that may be populated at the CSR discretion If the network is equal to "NSWCR" or "COUNTRY" then: <ul style="list-style-type: none"> - Is required to contain the Plumber's or Builder's Name and Phone Number for an SCR and if the ContactDetailPersonName and ContactDetailPhoneNumber are not provided. - Should contain the Address details if the NMI element is provided for an MFX.
QuoteReference	N R	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
CustomerCharacterisation	O	O	Required for Service Connection Request (Job Enquiry Codes = "SCR") <u>if the network is equal to "NSWCR" or "COUNTRY"</u>
LoadDetails/PerHour	O	O	Required for: Service Connection Request (Job Enquiry Code = "SCR") Basic Meter Fix (Job Enquiry Code = "MFX")

			<p>Basic Meter Change (Job Enquiry Code = "MCH")</p> <p>Service Upgrade (Job Enquiry Code = "USR")</p> <p>Meter Size Upgrade (Job Enquiry Code = "UMS")</p> <p><u>If the network is equal to "NSWCR" or "COUNTRY", this value must be populated with value of 1 if MeterInletPressure is populated and JobEnquiryCode is set to MRF.</u></p>
LoadDetails/PerAnnum	O	O	<p><u>If the network is equal to "NSWCR" or "COUNTRY", required where CustomerCharacterisation is a business customer (eg "Metropolitan Business" "Non Metropolitan Business") (and optional where CustomerCharacterisation is a residential customer) for:</u></p> <p>Service Connection Request (Job Enquiry Code = "SCR")</p> <p>Basic Meter Fix (Job Enquiry Code = "MFX")</p> <p>Optional for:</p> <p>Basic Meter Change (Job Enquiry Code = "MCH")</p> <p>Service Upgrade (Job Enquiry Code = "USR")</p> <p>Meter Size Upgrade (Job Enquiry Code = "UMS")</p>
MeterInletPressure	O	O	<p>Considered as delivery pressure.</p> <p><u>If the network is equal to "NSWCR" or "COUNTRY", required for:</u></p> <p>Meter Fix (Job Enquiry Code = "MFX")</p> <p>Meter Size Upgrade (Job Enquiry Code = "UMS")</p> <p>Optional for:</p> <p>Service Upgrade (Job Enquiry Code = "USR")</p> <p><u>Meter Refix (Job Enquiry Code = "MRF")</u></p> <p>Service Connection Request (<u>Job Enquiry Code = "SCR"</u>)</p> <p>Default to "1.1". <u>If this element is populated to JobEnquiryCode of MRF then LoadDetails/PerHour must also be populated with value of 1.</u></p>
COCNumber	O	O	<p>The COC Number is not used in NSW/ACT in relation if the JurisdictionCode is equal to "NGI" or "AGI". The element is however mandatory in the aseXML schema when the parent element "SimpleMeter" is provided to</p>

			hold the PlumberLicenceNumber element for a NSW/ACT Meter Fix. However the content may be empty.
PlumberLicenceNumber	O	O	Required for NSW/ACT Meter Fix
PlumberContactDetail / PersonName	N R	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY". Refer to SORDSpecialComments/CommentLine
PlumberContactDetail / PhoneNumber	N R	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY". Refer to SORDSpecialComments/CommentLine
StartWorkNoticeNumber	O	O	Not required for NSW/ACT if the network is equal to NSWCR or COUNTRY, or in relation if the JurisdictionCode is equal to "NGI" or "AGI"
DateTimeCSRAccessedC ustomerRecord	M	M	
DateTimeCSRProcessedT ransaction	M	M	
MeterSerialNumber	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
ConnectionType	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".

5.13.2 Service Order Response

For NSW/ACT where the network is "NSWCR" or "COUNTRY" the following provides transformation guidance between section 4.2.3.5 (ServiceOrderResponse)) of the B2B Interface Definition (For the SA and WA Gas Retail Markets) and section 5.13.2 (Service Order Response) of Participant build pack 5 for using the NSW/ACT format.

The receiving retailer will receive this transaction based on section 5.13.2 (Service Order Response) of Participant build pack 5. If the distributor submits this in the SA Market format, the following provides transformation guidance to section 5.13.2 (ServiceOrderResponse) of Participant Build pack5:

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Convert xsi types from ServiceOrderGasMeterData to ServiceOrderMultiMeterData. This includes changes to child xsi types:

- from GasStandingData to GasMultiMeterStandingData.
- from GasMeterStandingData to GasMultiMeterStandingDataType.
- from GasMeterReadData to GasMultiMeterReadDataType
- from GasBasicMeterStandingData to GasBasicMultiMeterStandingData
- Change of structure
 - PressureCorrectionFactor is relocated in the structure
- Note the following elements will not be provided in the final form.
 - MeterData/Meter/MeterType
 - New/ MeterMultiplier
 - New/ MeterInstallationType
 - New/NumberOfDialsOnDevice
 - New/ MeterMeasurementUnit
 - New/ BillingMethod
 - Current/ MeterSerialNumber
- JobCompletionCode3 New enumeration value of "99" will not be used.

Transaction Data Elements

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
responseType	M	M	"Initial" for initial response "Closure" when Service Order is closed Implemented as an attribute of the ServiceOrderResponse aseXML element.
NMI	O	O	Required when supplied by the Retailer in the Service Order Request. Required on completion of a Meter Fix (Job Enquiry Code = "MFX") regardless of whether provided in the Service Order Request or not.

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
			Required when the Service Order work affected a specific NMI regardless of whether provided in the Service Order Request or whether the Service Order was initiated by the Distributor. Optional for Service Connection (Job Enquiry Code = "SCR") Otherwise not required.
Checksum	O	O	Required if NMI is populated. Implemented as an attribute of the NMI aseXML element
Address	O	O	Required if NMI not populated. Implemented in the aseXML "Address" structured format
JobEnquiryCode	M	M	Used by Distributor to determine work requirement and priority
ServiceOrderNumber	O	O	Retailer's RB Reference Number Required when Service Order was initiated by a Retailer. For an implied service order, the Service Order Number is expected to equal the transfer request ID allocated by the Market Operator.
ServiceProviderReference	M	M	Distributor's Work Request Number
AppointmentDetail/ Preferred/ Date	O	O	Required for Initial response for Service Connection Request (Job Enquiry Code = SCR) and No Access response to all Service Order Requests.

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
AppointmentDetail/ Preferred/ Time	O	O	Required for No Access response if supplied in request transaction
DateServiceOrderCompleted	O	O	Required if Service Order completed
TimeServiceOrderCompleted	O	O	Optional if Service Order completed
Removed/ MeterSerialNumber	O	O	Required whenever a meter is removed as part of the Service Order completion
Removed/ MeterRead/ Current/ IndexValue	O	O	Required whenever a meter is removed as part of the Service Order completion. If supplied will result in the provision of energy data for this MIRN via a MeterDataNotification transaction.
New/ MeterSerialNumber	O	O	Required whenever a new meter is fitted as part of the Service Order completion
New/ PressureCorrectionFactor	O	NR (relocated)	Required whenever a new meter is fitted as part of the Service Order completion
New/ MeterTypeSizeCode	O	O	In NSW/ACT, required if the Network is equal to "NSWCR" or "COUNTRY", and a new meter is fitted as part of the Service Order completion
New/ MeterRead/ Current/ IndexValue	O	O	Required whenever a new meter is fitted as part of the Service Order completion. If supplied will result in the provision of energy data for this MIRN via a MeterDataNotification transaction.
New/ MeterRead/ Current/ PressureCorrectionFactor	NR (relocated)	O	Required whenever a new meter is fitted as part of the Service Order completion

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
New/ BasicMeter/ NextScheduledReadDate	O	O	Required In NSW/ACT if Meter Fix (Job Enquiry Code = "MFX") and the Network is equal to "NSWCR" or "COUNTRY"
New/ BasicMeter/ ScheduledReadingDayNumber	O	O	In NSW/ACT, required if the Network is equal to "NSWCR" or "COUNTRY" and it is for Meter Fix (Job Enquiry Code = "MFX")
MeterData/Meter/MeterType	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
New/ MeterMultiplier	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
New/ MeterInstallationType	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
New/ NumberOfDialsOnDevice	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
New/ MeterMeasurementUnit	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
New/ BillingMethod	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
Current/ MeterRead/ Current/ IndexValue	O	O	Required whenever a validated meter read is taken as part of the Service Order completion. If supplied will result in the provision of energy data for this MIRN via a MeterDataNotification transaction.
Current/ MeterSerialNumber	NR	O	In NSW/ACT, not required if the Network is equal to "NSWCR" or "COUNTRY".
DateOfAttemptedAccess	O	O	Required for No Access response

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
JobCompletionCode1	O	O	Required if Service Order completed or attempted with No Access
JobCompletionCode2	O	O	Required if Service Order completed or attempted with No Access
JobCompletionCode3	O	O	Required whenever a meter is removed as part of the Service Order completion Optional for other Service Order completions. For NSW/ACT where network is equal to COUNTRY or NSWCR the new enumeration value of "99" will not be used.
NotificationData / SpecialNotes / CommentLine	O	O	Required if Service Order: <ul style="list-style-type: none"> not completed including when cancelled (by the Distributor); Retailer cancels SO, but crew attends site and is unable to complete work For the avoidance of doubt, not required for retailer initiated B2B cancellation transaction unless: Retailer Cancel SO was rejected by the Distributor but later cancelled in the field SO cancellation was verbally communicated by the Retailer. Up to 3 comment lines can be provided (80 characters each) Note: Participants will refer to this field as SORDNotCompleteComment/CommentLine
Event	O	O	May be repeated any number of times.

TRANSACTION:		SERVICEORDERRESPONSE	
Received From:		Distributor	
Sent To:		Retailer	
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
			The Event element will identify any errors occurring in the processing of the request record.

5.13.3 Planned Outages

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this transaction is as per Appendix E (Planned Outages) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets).

5.14 Basic Meter Installation and MIRN Status update (DB to AEMO) (Ref

For NSW/ACT the following applies rather than those as listed in section 4.4 (Basic Meter Installation and MIRN Status Update) of the Interface Definition (Participant Build Pack 2).

Add the following.

"For NSW/ACT any references to 2nd Tier is not applicable. NSW/ACT is a global settlement market and therefore new metering installations or updates to the MIRN status is required for all MIRNs.

5.14.1 Meter Fix Notification Transaction

For NSWACT this will be received as per section 5.14.1 (Meter Fix Notification Transaction) of Participant Build Pack 5.

If the sending distributor submits this in the SA Market Format as per section 8.3.3 (GasMeterNotification/MeterFix transaction) of the SA/WA Interface Control Document, the following provides transformation guidance to section 5.14.1 (Meter Fix Notification Transaction) of Participant Build Pack 5 for using the NSW/ACT format.

- Changed Data Elements
 - Role (Translation of SA code of USER with NSW code CFRO)
- Generated elements during transform:
 - NetworkID
 - NetworkReceiptPointID

- MeterReadFrequency
- MeterReadingFrequencyTypeCode
- Retained fields (variation to section 5.14.1 (Meter Fix Notification Transaction) of Participant Build Pack 5)
 - TransmissionZone
 - HeatingValueZone
- Removed elements during transform.
 - SupplyPointCode
 - Party/Role sets where Role is not equal to USER (or CFRO)

TRANSACTION:			GASMETERNOTIFICATION/METERFIX
Received From:			Distributor
Sent To:			AEMO
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	
Checksum	M	M	An attribute of NMI
AustralianPostCode	NR	NR	Not Required for NSW/ACT
SupplyPointCode	M	NR	
BaseLoad	O	O	Mandatory if basic meter
TemperatureSensitivityFactor	O	O	
MIRNStatus	M	M	Can be either "Commissioned" or "Decommissioned"
NetworkID	NR	O	For NSW/ACT this equates to Network Section. In NSW/ACT if the network is equal to "NSWCR" or "COUNTRY", TransmissionZone and Heating Value Zone are used by AEMO to determine NetworkID during transform.
NetworkReceiptPointID	NR	O	For NSW/ACT if the network is equal to "NSWCR" or "COUNTRY", TransmissionZone and Heating Value Zone are used by AEMO to

			determine NetworkReceiptPointID during transform.
Party	M	M	Current FRO only represented in NSW format. Current FRO and Distributor are both represented in SA format. Mapping for Distributor is removed during transform.
Role	M	M	"CFRO" is the only value to be accepted with this transaction for NSW format. 'USER' and 'NO' are both provided in SA format. 'USER' maps to 'CFRO', and the 'NO' mapping is removed.
MeterReadFrequency	NR	O	In NSW/ACT format, derived as 'Quarterly' when SupplyPointCode. Is 'Basic' during transform. In NSW/ACT format, derived as 'Daily' when SupplyPointCode is 'Interval' during transform.
MeterReadingFrequencyType Code	NR	O	In NSW/ACT format, derived as 'N' for 'Non-Daily' when SupplyPointCode is 'Basic' during transform. In NSW/ACT format, derived as 'D' for 'Daily' when SupplyPointCode is 'Interval' during transform.
DateServiceOrderCompleted	M	M	
TransmissionZone	M	O	In NSW/ACT, required if the network is equal to "NSWCR" or "COUNTRY".
HeatingValueZone	M	O	In NSW/ACT, required if the network is equal to "NSWCR" or "COUNTRY" Heating Value Zone is used to determine NetworkID.

5.14.2 MIRN Status Update Notification Transaction

In NSW/ACT where the network is “NSWCR” or “COUNTRY” this transaction is unchanged as per section 8.5.3 and section 8.6.3 of the SA/WA Interface Control Document for the SA format.

If the distributor submits this in the aseXML version applicable for the SA Market Format the following provides transformation guidance to aseXML version applicable to the NSW/ACT market format.

- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

5.15 Route and site information

5.15.1 AmendMeterRouteDetails/AmendSiteAccessDetails

For NSW/ACT the following provides transformation guidance between section 4.4.2.1 (AmendMeterRouteDetails/AmendSiteAccessDetails) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) and section 5.15.1 (AmendMeterRouteDetails/AmendSiteAccessDetails) of Participant Build Pack 5 for using the NSW/ACT format.

The initiating retailer will submit or receive this transaction as per the aseXML schema version as used for Participant build pack 5. This would be intercepted and transformed at the Gas FRC Hub in the following ways:

To the distributor (T66)

- Conversion for aseXML version number to the South Australian retail gas market from the version applicable to Participant build pack 5.
- Convert xsi type from MultiMeterSiteAccessDetails to GasStandingDataUpdate. Element locations will change as the xsi type is replaced.
 - MeterPosition (O) changes location from under the MeterData element to SiteData.
- Note the following elements will not be provided in the final form.
 - NextScheduledReadDate (O)
 - MeterData/MeterSerialNumber (O)

To the retailer (T67)

- Conversion for aseXML version number as per the South Australian retail gas market to the version applicable to Participant build pack 5.
- Convert xsi type from GasStandingDataUpdate to MultiMeterSiteAccessDetails. Element locations will change as the xsi type is replaced.
 - MeterPosition (O) changes location to under the MeterData element from SiteData.
- Note the following elements will not be provided in the final form.
 - NextScheduledReadDate (O)
 - MeterData/MeterSerialNumber (O)

Transaction Data Elements

TRANSACTION:			AMENDMETERROUTEDetails/ AMENDSITEACCESSDetails
Received From:			Retailer or Distributor
Sent To:			Distributor or Retailer
Data Element	Mandatory / Optional / Not Required (SA)	Mandatory / Optional / Not Required (NSW WW&T)	Usage
NMI	M	M	
Checksum	M	M	Implemented as an attribute of the NMI aseXML element
MeterReadFrequency	O	O	At least one of these elements must be populated. In NSW/ACT, 'MeterSerialNumber' and 'NextScheduledReadDate' are not required if the Network is equal to "NSWCR" or "COUNTRY".
AccessDetails	O	O	
DogCode	O	O	
MeterData/MeterSerialNumber	NR	O	
MeterData/MeterPosition	O	O	
NextScheduledReadDate	NR	O	
LastModifiedDateTime	M	M	May be used by the recipient to ensure that this is the latest data.

5.16 ~~Customer Details Information~~ The is no section 15.6

5.16.1 ~~CustomerDetailsNotification/CSVCustomer (Ref 70)~~ There is no section 5.16.1

~~For NSW/ACT where the network is "NSWCR" or "COUNTRY" the transaction is unchanged as per section 4.6.2.1 (CustomerDetailsNotification/CSVCustomer) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) in the SA format. The retailer will send as per NSW/ACT format refer to section 5.16.1 (CustomerDetailsNotification/CSVCustomer) of Participant Build pack 5, with the exemption~~

Commented [DM6]: N011/20

Commented [DM7]: N011/20

~~that the Life Support flag value in the Sensitive_Load field is not supported in NSW WW&T format.~~

~~If the receiving distributor requires this in the aseXML version applicable for the SA Market Format the following provides transformation guidance to aseXML version applicable to the NSW/ACT market format.~~

- ~~• Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.~~

5.17 ROLR

5.17.1 Customer and Site Details (Monthly – Non Host update) (T900)

For NSW/ACT, refer to section 5.17.1 of Participant Build pack 5.

5.17.2 ROLR Basic Compliance (Monthly) (T905 / INT601)

For NSW/ACT the following should be added as per Participant Build Pack 5, and by extension section 6.14.1 of the CSV data format specification (Participant Build Pack 1).

~~"The T905 is a basic compliance report for ROLR (Retailer of Last Resort) generated on receipt of the T900 (Customer and Site Details Monthly) file provided by the retailer.~~

~~This is a Market Participant specific report issued monthly after transfer of the T900 has completed and AEMO validation completed. This report is sent to all retailers participating in the Retail VIC Gas Market, the Retail QLD Gas Market and the Retail NSW Gas Market. The file format is located in the User Guide to MIBB reports document (INT601)."~~

5.17.3 Customer and Site Details (T970)

For NSW/ACT this transaction is implemented as per section 2 (Customer and Site Details) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

~~"The method of file delivery is FTP.~~

The following naming convention is to be used.

~~NSWACTGAS_ROLRSDT_OriginatorID_RecipientID_CCYYMMDDHHmmSS"~~

5.17.4 List of RoLR transfers (T980)

For NSW/ACT this transaction is implemented as per section 3 (List of RoLR transfers) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

~~"The method of file delivery is FTP.~~

The following naming convention is to be used.

~~NSWACTGAS_ROLR_LISTOFROLRTRANSFERS_OriginatorID_RecipientID_CCYYMMDDHHmmSS"~~

5.17.5 MIRN Standing Data (T1000)

For NSW/ACT this transaction is implemented as per section 4 (MIRN Standing Data) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"The following naming convention is to be used.

NSWACTGAS_MIRNSTANDINGDATA_OriginatorID_RecipientID_CCYYMMDDHHmmSS"

5.17.6 Account Creation (T1005)

For NSW/ACT this transaction is implemented as per section 5 (MIRN Standing Data) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"The following naming convention is to be used.

NSWACTGAS_ACCOUNTCREATION_OriginatorID_RecipientID_CCYYMMDDHHmmSS"

5.17.7 Customer and Site Details from FRB to RoLR (T1010)

For NSW/ACT this transaction is implemented as per section 6 (MIRN Standing Data) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"The following naming convention is to be used.

NSWACTGAS_CUSTOMERSITEDetailsFRB_OriginatorID_RecipientID_CCYYMMDDHHmmSS"

5.17.8 List of Cancelled Service Orders (T1050)

For NSW/ACT this transaction is implemented as per section 8 (MIRN Standing Data) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"Below is an example if Australian Gas Networks Limited (AGNL) is sending the file:

E-mail address:

Subject Line:

"NSWACTGAS_SERVICE_ORDERS_INFLIGHT_COUNTRYNWO_20080730131500"

CSV Attachment:

Header (note: to be included in first row):"

5.17.9 List of AEMO Meter Fixes (T1060)

For NSW/ACT this transaction is implemented as per section 9 (List of AEMO Meter Fixes) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"The method of file delivery is FTP.

The following naming convention is to be used.

NSWACTGAS_LISTOFAEMOMETERFIXES_OriginatorID_RecipientID_CCYYMMDDHHmmSS"

5.17.10 RoLR CATS Accelerated and Cancelled MIRNs (T1070)

For NSW/ACT this transaction is implemented as per section 10 (RoLR CATS Accelerated and Cancelled MIRNs) under Appendix G. RoLR Process (SA Only) of the "FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)" document. This includes the following updates.

"The method of file delivery is FTP.

The following naming convention is to be used.

NSWACTGAS_ACCELERATEDTRANSFERS_OriginatorID_RecipientID_CCYYMMDDHHmmSS"

The receiving retailer may follow this definition, or may choose to receive this transaction based on section 5.16.10 of Participant build pack 5. The specific differences includes:

Change reason code for error corrections as 0004 for NSW/ACT instead of 0003 as per SA.

5.18 Meter Range Updates (T333)

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this is required as per Appendix E (subsection Meter Range Updates (T333)) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets) with the following additions.

Hot water Meters are identifiable by "PA" in the prefix of the Meter Number which is in the following format:

yyPANnnnnn

Where:

yy = year of purchase

nnnnnn = sequential number

In NSW/ACT where the network is "NSWCR" or "COUNTRY" the schema definition is as follows.

Transaction 333		
Heading/Column designator	NSW Mandatory/ Optional	Comment
Low_Meter_Range	M	
High_Meter_Range	M	
Meter_Type_Size_Code	M	
Number_of_Meter_Dials	M	
Capacity_Group	M	
Meter_Description	M	
Metric_Imperial_Indicator	M	
Capacity	M	

Transaction 333		
Heading/Column designator	NSW Mandatory/ Optional	Comment
Meter_Attachments	M	

6. New transactions for NSW/ACT (Wagga Wagga & Tamworth areas)

Transactions introduced under this section are to be used only in the NSW/ACT Retail Market.

6.1 Meter Reads – Energy (Interval read meters) (DB to RBs via AEMO) (T2168)

6.1.1 Overview

For NSW/ACT where the network is “NSWCR” or “COUNTRY”, interval data is provided by the distributor as a CSV file to AEMO in separate data files for each user. AEMO will transform each file and publish on to the MIBB in the form of a CSV report.

Upon processing the CSV file, AEMO would generate a CSV acknowledgment file (“.ACK” file) as per described in section 3.4.2.5 of the SA/WA Interface Control Document.

6.1.2 Provision of Energy Flow Data

The CSV file format is defined as per the table schema in Appendix E (Interval Meter Data subsection) of the “FRC B2B System Interface Definitions (for the SA and WA Gas Retail Markets)”. This would be detected and transformed to a different CSV data format published to the MIBB as provided in section 6.8.1.2 (MeterReadingToUserHourlyRpt) of Participant Build Pack 6.

The transforms are described as follows:

- Transposed form:
 - Each separate hourly consumption field value (Consumption_xx) by mirn and gas day will be represented as a separate row denoted by the mirn, gas day and time interval. The value will also be divided by 1000 to convert from Megajoules to Gigajoules.
 - Read type will be mirrored for each time interval for that the corresponding mirn and gas day.
 - Current_date field containing the report creation timestamp will be appended to each new row.
- The ‘total daily consumption’ value will be discarded.
- The filename format for the Distributor supplied CSV file is:

NSWACTGAS_INTERVALMETERDATA_[DBNAME]_[RetailerName]_ccyyymmddhhmmss.CSV.

File names for the final CSV file will be set based on the MIBB report file convention as denoted in section 6.8.1.2 (MeterReadingToUserHourlyRpt) of Participant Build Pack 6.

INTERVALMETERDATA INTERVALHISTORYRESPONSE		
Heading/Column Designator	SA Mandatory /Optional	Comment
MIRN	M	
MIRN_CHECKSUM	M	
GAS_DAY	M	
CONSUMPTION_HR01	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =1
CONSUMPTION_HR02	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =2
CONSUMPTION_HR03	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =3
CONSUMPTION_HR04	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =4
CONSUMPTION_HR05	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =5
CONSUMPTION_HR06	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =6
CONSUMPTION_HR07	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =7
CONSUMPTION_HR08	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =8
CONSUMPTION_HR09	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =9
CONSUMPTION_HR10	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =10

INTERVALMETERDATA INTERVALHISTORYRESPONSE		
Heading/Column Designator	SA Mandatory /Optional	Comment
CONSUMPTION_HR11	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =11
CONSUMPTION_HR12	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =12
CONSUMPTION_HR13	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =13
CONSUMPTION_HR14	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =14
CONSUMPTION_HR15	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =15
CONSUMPTION_HR16	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =16
CONSUMPTION_HR17	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =17
CONSUMPTION_HR18	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =18
CONSUMPTION_HR19	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =19
CONSUMPTION_HR20	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =20
CONSUMPTION_HR21	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =21

INTERVALMETERDATA INTERVALHISTORYRESPONSE		
Heading/Column Designator	SA Mandatory /Optional	Comment
CONSUMPTION_HR22	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =22
CONSUMPTION_HR23	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =23
CONSUMPTION_HR24	M	This value will be divided by 1000 and transposed for to the consumption_mj for the corresponding row with the same mirn and gas_day and ti =24
TOTAL_DAILY_CONSUMPTION	M	This value is discarded.
TYPE_OF_READ	M	Note: the allowed value 'deemed' does not apply for this transaction. This value will be assigned for all transposed form hourly rows for the MIRN and GAS_DAY

6.2 Meter Reads – Energy and Consumption (Daily) (DB to AEMO) (Ref 2117, 2118),

Meter Reads – Energy and Consumption (Daily read) are the transactions between Distributors and AEMO that provide and manage the usage data for bill calculation.

The following table shows the Meter Reads – Energy and Consumption group of aseXML transactions and the corresponding transactions from the Table of Transactions.

ASEXML TRANSACTION	TRANSACTION TABLE	
Transaction Name	Ref No	Transaction Type
MeterDataNotification	2117	Energy Flow
MeterDataResponse	2118	Energy Flow

These transactions belong to the Meter Data Management (MDMT) Transaction Group in aseXML.

The transactions have been grouped into the following for definition:

- Provision of Energy Flow Data

These are defined below.

6.2.1 Provision of Energy Flow Data

Energy Flow (Daily Read) data is transferred from a Distributor to AEMO as part of a scheduled process following data collection and energy calculation. The activity diagram below shows the high level process:

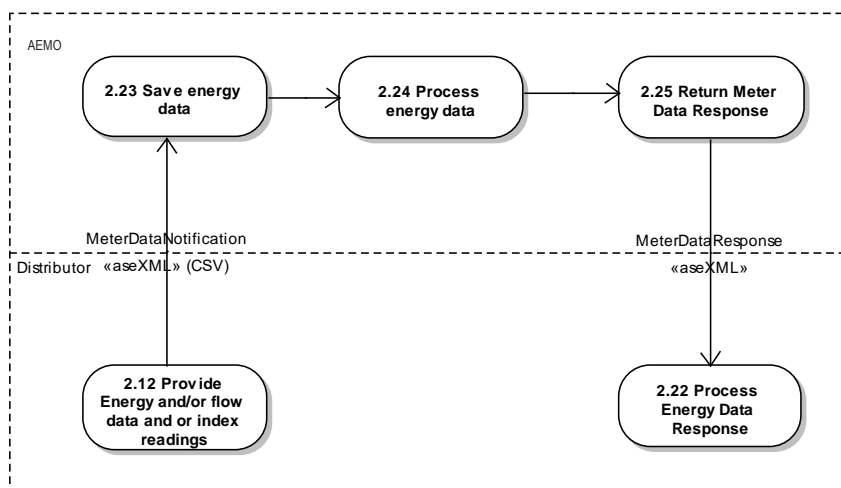


FIGURE 6-1 PROVISION OF ENERGY FLOW DATA ACTIVITY DIAGRAM

Process Sequence

Following collection of Meter Read Data and subsequent calculation of energy data, a Distributor will combine the data for each Retailer for the agreed period into comma separated value (CSV) format and forward this to AEMO as *MeterDataNotification* transactions. The data will be forwarded within the timeframe prescribed in the Retail Market Procedures or as otherwise agreed.

The diagram below shows the sequence of events for this transaction:

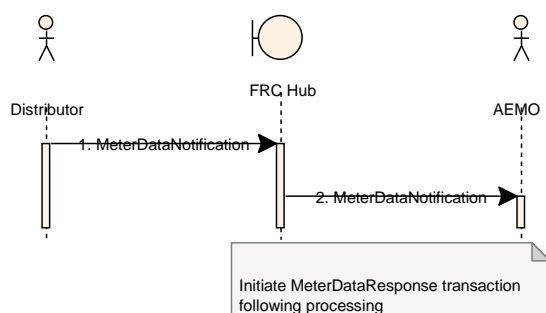


FIGURE 6-2 METER DATA NOTIFICATION SEQUENCE DIAGRAM

ID	ASEXML TRANSACTION	FROM OBJECT	TO OBJECT
1	MeterDataNotification	Distributor	FRC Hub
2	MeterDataNotification	FRC Hub	AEMO

After AEMO has processed the CSV data a MeterDataResponse message is returned to the Distributor to provide advice that the data has been processed. The MeterDataResponse transaction will identify whether the processing was:

- Successful – all CSV records were successfully processed
- Partially successful – processing of some CSV records failed
- Failure – no processing of the CSV data was possible

by containing event records for all errors detected. This may be only one event record if the entire processing was a failure, or many – one for each CSV record that failed – if the processing was partially successful. The Distributor can use the error information to correct the data for resubmission to the applicable Retailer

The diagram below shows the sequence of events for this transaction:

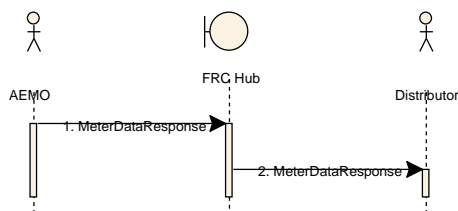


FIGURE 6-3 METER DATA RESPONSE SEQUENCE DIAGRAM

ID	ASEXML TRANSACTION	FROM OBJECT	TO OBJECT
1	MeterDataResponse	AEMO	FRC Hub
2	MeterDataResponse	FRC Hub	Distributor

6.2.1.1 MeterDataNotification

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE: 2117 - ENERGY FLOW
Trigger	This interface can be triggered as a result of a Scheduled Meter Read or Special Meter Read.
Pre-conditions	Calculation of energy flow data for AEMO for the agreed period

Post-conditions	AEMO application has saved the CSV data.
Transaction acknowledgment specific event codes	None.

The MeterDataNotification transaction transfers the Meter Read data in CSV format from the Distributor to AEMO.

For NSW/ACT where the network is “NSWCR” or “COUNTRY”, interval data may be provided by the distributor as a CSV file to AEMO via the MIBB using FTP. This CSV file format is defined as per section 9.3.3 (Interval Meter Data) of the SA/WA Interface Control Document.

The B2B Hub will transform the CSV content and deliver it to AEMO as a MeterDataNotification transaction (with the CSVIntervalData element as the container), and an acknowledgement and response will be provided.

The transforms are described as follows:

- CSV data is converted to the MeterDataNotification aseXML transaction using the CSVIntervalData element as the container element.
- CSV data in the INTMR (SA format) is translated to equivalent fields of the MeterDataNotification CSV fields.
 - The MIRN CSV field (SA INTMR format) is translated to the NSW MeterDataNotification format) NMI field.
 - The MIRN_CHECKSUM CSV field (SA INTMR format) is translated to the NSW MeterDataNotification format) NMI_Checksum field.
 - The GAS_DAY CSV field (SA INTMR format) is translated to the NSW MeterDataNotification format) Previous_Read_Date and Current_Read_Date fields.
 - The TOTAL_DAILY_CONSUMPTION CSV field (SA INTMR format) is divided by 1000 to convert to GJ and translated to the NSW MeterDataNotification format) Consumption_GJ fields.
 - The TYPE_OF_READ field (SA INTMR format) is translated to the NSW MeterDataNotification format) Type_Of_Read field.
- The new aseXML header elements populated from the CSV file name components, ie NSWACTGAS_INTMR_[DISTRIBUTOR]_[RECEIVER]_ccyymmddhhmmss.CSV.
 - From element = [DISTRIBUTOR]
 - To element = [RECEIVER]
 - MessageID =[DISTRIBUTOR]MINTMRccyymmddhhmmss
 - MessageDate = ccyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00
 - TransactionGroup = MDMT
 - Priority = Medium
 - SecurityContext is not required or may be empty
 - Market = [MARKETCODE]
 - transactionID = [DISTRIBUTOR]TINTMRccyymmddhhmmss

- o transactionDate = ccyyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00

Example conversion

NSWACTGAS_INTMR_COUNTRYNWO_NAGMO_20150312142310.CSV will translate to:

<From>COUNTRYNWO</From>

<To>NAGMO</To>

<MessageID>COUNTRYNWOINTMR20150312142310</MessageID>

<MessageDate>2014-08-24T13:20:10.100+10:00</MessageDate>

<TransactionGroup>MDMT</TransactionGroup>

<Priority>Medium</Priority>

<SecurityContext></SecurityContext>

<Market>NSWACTGAS</Market>

</Header><Transactions>

<Transaction transactionID="COUNTRYNWOINTMR20150312142310"
transactionDate="2015-03-12T14:23:10+10:00">

Transaction Data Elements

TRANSACTION:		METERDATANOTIFICATION
Received From:		Distributor
Sent To:		AEMO
Data Element	Mandatory / Optional / Not Required	Usage
RecordCount	M	Specifies the number of records contained in the populated CSV element excluding the header row.
CSVIntervalData	M	Contains the data in CSV format. If RecordCount is set to 0, then the value of CSVData element must be set to xsi:nil="true".

CSVINTERVALDATA			
Heading	SA INTMR source field	Mandatory / Optional / Not Required (NSW WW&T)	Comment
NMI	MIRN	M	Mapped from MIRN field in Distributor supplied Interval Meter Read Data CSV format.
NMI_Checksum	MIRN_CHECKSUM	M	Mapped from MIRN_Checksum field in Distributor supplied Interval Meter Read Data CSV format.
RB_Reference_Number		NR	
Reason_for_Read		NR	
Gas_Meter_Number		NR	
Gas_Meter_Units		NR	
Previous_Index_Value		NR	

CSVINTERVALDATA			
Heading	SA INTMR source field	Mandatory / Optional / Not Required (NSW WW&T)	Comment
Previous_Read_Date	GAS_DAY	M	The gas date the previous read applies to. This may not be the same as the date in Current_Read_Date. Mapped from Gas_Day field in Distributor supplied Interval Meter Read Data CSV format.
Current_Index_Value		NR	
Current_Read_Date	GAS_DAY	M	Mapped from Gas_Day field in Distributor supplied Interval Meter Read Data CSV format.
Volume_Flow		NR	
Average_Heating_Value		NR	
Pressure_Correction_Factor		NR	
Consumption_GJ	TOTAL_DAILY_CONSUMPTION	M	Mapped from Total_Daily_Consumption field in Distributor supplied Interval Meter Read Data CSV format. Consumed Energy is measured in Gigajoules
Type_of_Read	TYPE_OF_READ	M	Mapped from Type_Of_Read field in Distributor supplied Interval Meter Read Data CSV format.
Estimation_Substitution_Type		NR	
Estimation_Substitution_Reason_Code		NR	
Meter_Status		NR	
Next_Scheduled_Read_		NR	

CSVINTERVALDATA			
Heading	SA INTMR source field	Mandatory / Optional / Not Required (NSW WW&T)	Comment
Date			
Hi_Low_Failure		NR	
Meter_Capacity_Failure		NR	
Adjustment_Reason_Code		NR	
Energy_Calculation_Date_Stamp		M	Mapped from CSV filename date stamp component.
Energy_Calculation_Time_Stamp		M	Mapped from CSV filename time stamp component.

The transaction is implemented as the MeterDataNotification transaction in aseXML. The transaction is in the following format:

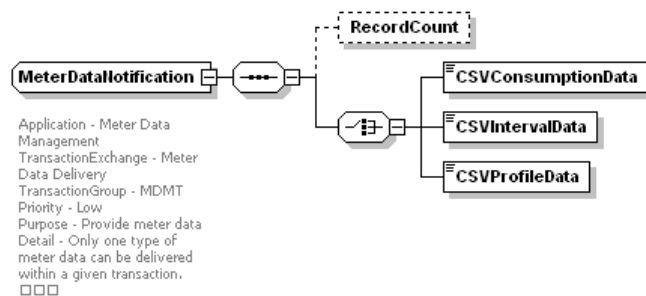


FIGURE 6-4 METERDATANOTIFICATION ASEXML SCHEMA

The CSV data is included in the CSVIntervalData element.

6.2.1.2 MeterDataResponse

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE: 2118 – METER READS – ENERGY AND CONSUMPTION (DAILY)
--	--

	(DB TO AEMO) RESPONSE
Trigger	Completion of processing of the CSV data from the MeterDataNotification transaction
Pre-conditions	Energy data has been delivered via MeterDataNotification transaction and processed
Post-conditions	Distributor has a record of success or failure of processing of the energy data, and all errors detected.
Transaction acknowledgment specific event codes	None.

The MeterDataResponse transaction advises the Distributor of the success or failure of the processing of the CSV data file. It also identifies any errors detected and records not processed within the CSV data.

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this will be sent as per section 6.2.1.2 of Participant Build pack 5.

For NSW/ACT where the network is "NSWCR" or "COUNTRY", the Distributor would receive the aseXML transaction acknowledgment and MeterDataResponse via its gateway, if it provides the NSW format MeterDataNotification as described in section 6.2.1.1 of Participant Build pack 5. If the receiving distributor requires this in the SA Market Format as per section 9.3.2 (MeterDataResponse Transaction) of the SA/WA Interface Control Document, the following provides transformation guidance from section 6.2.1.2 (MeterDataResponse) of Participant Build pack 5 for using the NSW/ACT format.

- Conversion for aseXML version number applicable to Participant build pack 5 to the version as per the South Australian retail gas market.

If the Distributor provides the INTMR CSV file uploaded via the MIBB, the B2B Hub would transform the returning aseXML transaction acknowledgment and MeterDataResponse to separate CSV acknowledgement files and publish the files to the Distributors folder on the MIBB. The CSV acknowledgement files are described in section 3.4.2.5 of the SA/WA Interface Control Document.

The aseXML transaction acknowledgment transform to CSV form is described as per section 6.7.1.4 (MIBB CSV file upload) of Participant Build pack 6.

The MeterDataResponse transform to CSV form is described as follows:

TRANSACTION:		METERDATA RESPONSE	
Received From:		AEMO	
Sent To:		Distributor	
aseXML transaction MeterDataResponse Data Element	Mandatory / Optional /	Mandatory / Optional /	Usage

	Not Required (aseXML)	Not Required (CSV ack)	
ActivityID	M	NR	Identify the submission of meter data via a MeterDataNotification transaction
AcceptedCount	M	NR	The number of meter reads accepted.
LoadDate	M	M	The date when data was loaded. Translates to RECEIPT_DATETIME CSV field.
Event	O	O	Must be supplied if problems have been detected whilst processing the embedded CSV file. There should be one Event per error detected. This will populate EVENT_CODE, EVENT_DESCRIPTION and CONTEXT CSV fields.

6.3 Ancillary charge listing published by the Distributor (Ref 2125)

The following transactions are additions for NSW/ACT

In NSW/ACT where the network is COUNTRY or NSWCR the Distributor must make available in an electronic form an Ancillary charge listing for Retailers. This listing is used by the Retailer to assist with reconciling the Network Bills.

The data is prepared by the Distributor and can either be download from the website or e-mailed, if requested.

TRANSACTION T2100		
Heading/Column designator	Mandatory/ Optional	Comment
B2B JOB CODE		Equivalent to Job Enquiry code.
CHARGING CODE		
DESCRIPTION		
LONG DESCRIPTION / COMMENT		

CHARGE (excl. GST)		Dollar value.
CHARGE (incl. GST)		Dollar value.
DATE_COMMENCED	M	The date from which the charge applies from.

6.4 Heating Value for the day (Ref 500, 500A)

6.4.1 Distributor supplied Heating Value (Ref 500)

For NSW/ACT where the network is COUNTRY or NSWCR the Distributor is to provide the daily flow weighted heating values for each gas day. In addition to the obligations as set out in SA Retail Market Procedures clause 3.10.2 (Publication of heating value data) the Distributor must provide to AEMO the file set out below.

The Distributor must provide the CSV file to AEMO. AEMO will provide a secure MIBB location for Distributors to directly place the file in a location that enables only AEMO to retrieve that file.

AEMO will process files sent by distributors and publish the heating values via a new public MIBB report INT 839a Daily Zonal Heating Values.

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE: 500 – Distributor supplied heating value	
Trigger	Time	Daily
Pre-conditions	N/A	
Post-conditions	500A - Daily Zonal Heating value	
Transaction acknowledgment specific event codes	N/A	

The structure for the data in CSV format is described in the following Report Details table.

TRANSACTION 500		
Heading/Column designator	Mandatory/Optional	Comment
Gas_Date	M	Format is ccyy-mm-dd
Heating_Value_Zone	M	The heating value zone as assigned by the Distributor:
Heating_Value	M	The heating value in MJ per standard cubic meter

6.4.1.1 CSV file upload via MIBB

When the file is FTP'd to AEMO the following file naming convention is to be used:

NSWACTGAS_PUBLISHHV_[Distributor]_AEMOMIBB_ccyymmddhhmiss.CSV

Note: Reference to "Distributor" refers to the Hub participant ID in upper case. The recipient Hub ID is AEMOMIBB.

The CSV naming convention set out in the current version of Participant Build Pack 1 – CSV Data Format Specification is to be used:

6.4.2 Daily Zonal Heating Values (Ref 500A)

AEMO will process files sent by distributors and publish the heating values via a public MIBB report Daily MIRN Heating Values. This process is only applicable to Network NSWCR and COUNTRY.

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE: 500A –Daily Zonal Heating Values	
Trigger	Time	Daily.
Pre-conditions	Distributor supplied Heating Value for the day (Ref 500)	
Post-conditions	N/A	
Transaction acknowledgment specific event codes	N/A	

The 'Published Daily Zonal heating value for the day' is a CSV report listing all of the Heating Value zones where the distributor is the current distributor.

Market report CSV files delivered via the public MIBB folder will have a designated filename structure in line with the MIBB report naming standards as described in section 4.2.1 (File name and extension) of the User Guide to MIBB Reports document.

Transaction Data Elements

MarketReport		
Received From:		AEMO
Sent To:		MIBB (Public report)
CSV File name base		int839a_v1_daily_zonal_hv_1
Heading	Mandatory/ Optional	Comment

The structure for the data in CSV format is described in the following Report Details table.

Report Details			
Heading	Primary key	Mandatory/ Optional	Comment
gas_date	Y	M	Gas day being reported e.g. 30 Jun 2007 Covering a period of 120 gas days (as available).
hv_zone	Y	M	Heating value zone as assigned by the distributor
hv_zone_description		M	Name of the heating value zone
heating_value_mj		M	The Heating value is in MJ per standard cubic meters
current_date		M	Report generation date and timestamp Date format dd Mmm yyyy hh:mm:ss

6.5 Transfer Error Correction Request (Ref 2135)

For NSW/ACT where the network is COUNTRY or NSWCR the following replaces the equivalent specification table in section 6.5 (Transfer Error Correction Request (Ref 2135)) of Participant Build pack 5

TRANSACTION:		CATSCHANGEREQUEST
Received From:		New FRO
Sent To:		AEMO
Data Element	Mandatory / Optional /	Usage

	Not Required	
ChangeReasonCode	M	For error corrections: '0004' in the NSW format becomes '0003' in the SA format. This is for noting only to clarify other subsequent CATS transactions to a distributor (requiring SA format). Users will only submit this transaction in NSW format using '0004'.
ProposedDate	M	Proposed date of transfer as error correction. For NSW/ACT where the network is COUNTRY or NSWCR, the date is limited to 425 calendar days in the past.
MeterReadTypeCode	NR	
ActualEndDate	NR	Not applicable for error corrections.
NMI	M	
Checksum	M	An attribute of NMI

6.6 Haulage Rights Notification (Ref 2145)

The Distributor is to provide AEMO information on Participant haulage rights for each Network Section. AEMO will use this information to validate and reject those transfers where the Participant does not have haulage rights. Note – A similar process exist for VIC other than the Retailers providing the information to AEMO relating to haulage rights.

For NSW/ACT where the network is COUNTRY or NSWCR the delivery method is via manual email.

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	T2145 HAULAGE RIGHTS NOTIFICATION
Trigger	Ad Hoc after Participants is granted haulage rights (or existing rights are changed)
Pre-conditions	None
Post-conditions	None
Transaction acknowledgment specific event codes	None

The following data elements are to be supplied with the transactions:

Transaction:		T2145 HAULAGE RIGHTS NOTIFICATION
Received From:		Distributor
Sent To:		AEMO
Data Element	Mandatory / Optional / Not Required	Usage
Participant_ID	M	
Network_ID	M	
Date_Haulage_Rights_granted	M	

CSV File name Example:
 NSWACTGAS_HAULAGE RIGHTS NOTIFICATION_COUNTRYNWO_NAGMO_
 CCYYMMDDHHmmSS.CSV

6.7 Wholesale Data Transactions

This section describes the transactions by which the Distributor and AEMO provide wholesale data.

Group	Sender	Receiver	Delivery options	Applicability
ERFT	AEMO	User	FRC HUB (aseXML) as Market Report MIBB CSV file published	
ERFT	AEMO	Distributor	FRC HUB (aseXML) as Market Report MIBB CSV file published	
ERFT	User	AEMO	N/A	No User initiated ERFT transactions
ERFT	Distributor	AEMO	MIBB CSV file upload	

6.7.1 Delivery options

6.7.1.1 FRC Hub (aseXML)

This option is standard aseXML transactions sent via the FRC HUB to the end recipient. These will be transaction acknowledged by the recipient when delivered by the FRC HUB.

6.7.1.2 FRC Hub (aseXML) as Market Report

Market reports sent via the FRC HUB using the MarketReport aseXML transaction. This transaction may have either a CSV content payload, or dedicated XML data elements. These will be transaction acknowledged by the recipient when delivered by the FRC HUB to the end recipient.

6.7.1.3 MIBB CSV file published

Market reports (CSV files) generated by AEMO as the sender, in the standard MIBB report format containing CSV equivalents of the Market Report transaction XML elements. The file will be placed in an appropriate private participant or public folder on the MIBB.

6.7.1.4 MIBB CSV file upload

Under this delivery option, the participant FTP's the CSV file (containing the raw CSV elements as per the descriptions under user initiated wholesale transactions where AEMO is the recipient) to a dedicated upload folder on the MIBB.

Participants using this upload process must provide the files in this CSV File name format:

NSWACTGAS_[TRANSACTIONNAME]_[DISTRIBUTOR]_NAGMO_ccyymmddhhmiss.CSV

Example for an UUAFG file name:

NSWACTGAS_UUAFG_COUNTRYNWO_NAGMO_20141014132300.CSV

When the file is FTP'd to AEMO the file extension is to be written as a ".tmp" file and then renamed to prevent the file being processed while it is being delivered.

For the avoidance of doubt the CSV upload file format and requirements are described under sections 2 and 3 of the Participant Build Pack 1 – CSV Data Format Specifications (version 3.3). For NSW/ACT, any reference to QLDGAS or VICGAS should be replaced with NSWACTGAS. The [TRANSACTIONNAME] component should align to the aseXML schema transaction.

CSV file submissions through this will be acknowledged via a participant specific MIBB report (refer Transaction 2300). For NSW/ACT where the network is COUNTRY or NSWCR and the Distributor automated electronic files are submitted in line with the SA/WA Interface Control Document, the CSV acknowledgment file (".ACK" file) is as per described in section 3.4.2.5 of the SA/WA Interface Control Document.

The aseXML transaction acknowledgment transform to CSV form is described as follows:

TRANSACTION:		ACKNOWLEDGEMENT	
aseXML Transaction ACK Data Element	Mandatory / Optional / Not Required (aseXML)	Mandatory / Optional / Not Required (CSV ack)	Usage
Initiating Transaction ID	M		Filename of the created ACK CSV file with a ".ACK" extension
Receipt Date/Timestamp	M	M	Translates to CSV ack field RECEIPT_DATETIME.
Receipt ID	O	NR	
Status	M	M	Translates to CSV ack field STATUS.
Duplicate	O		If Duplicate attribute = Yes, Filename of the created ACK CSV file with a ".DUP" extension
Accepted Count	O	NR	
Event Code	O	O	Translates to CSV ack field EVENT_CODE.
Event Description	O	O	Translates to CSV ack field EVENT_DESCRIPTION
KeyInfo	O	O	Append each item to CSV ack field CONTEXT if present for the event, separated by comma, in order of Context, Key Info, Explanation
Context	O	O	
Explanation	O	O	
Supported Version	O	NR	

6.7.2 ERFTTotalGasInjectedNotification (T2000)

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this transaction is described in section 6.7.2 (ERFTTotalGasInjectedNotification) of Participant Build pack 5 as the NSW form to be received by AEMO. The Distributor may send this transaction in the NSW form via the B2B Hub as aseXML, or may provide this in the current SA form (CSV file upload via FTP) as described in section 9.3.5 (Gate Point Metering Data (GPMD) (SA)) of the SA/WA Interface

Control Document. The following describes guidance for the CSV content to the aseXML equivalent.

The transforms are described as follows:

- Transposed content form:
 - CSV data is converted to the TotalGasInjectedNotification aseXML transaction.
 - Each separate hourly consumption field value (ENERGY_HRxx) is discarded.
 - Each daily total 'ENERGY' field value becomes the value in a TotalGasInjectedData / TotalGasInjected element.
 - The corresponding GAS_DAY is transformed to the gasDate attribute of the corresponding TotalGasInjectedData element.
 - The corresponding GATE_POINT_ID is mapped against lookup data to populate networkID and networkReceiptPointID attributes of the corresponding TotalGasInjectedData element.
- The new aseXML header elements populated from the CSV file name components, ie NSWACTGAS_GPMID_[DISTRIBUTOR]_[RECEIVER]_ccyymmddhhmmss.CSV.
 - From element = [DISTRIBUTOR]
 - To element = [RECEIVER]
 - MessageID =[DISTRIBUTOR]MGPMIDccyymmddhhmmss
 - MessageDate = ccyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00
 - TransactionGroup = ERFT
 - Priority = Medium
 - SecurityContext is not required or may be empty
 - Market = [MARKETCODE]
 - transactionID = [DISTRIBUTOR]TGPMIDccyymmddhhmmss
 - transactionDate = ccyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00

Example conversion

NSWACTGAS_GPMID_COUNTRYNWO_NAGMO_20150312142310.CSV
translate

will
to:

```
<Header>
<From>COUNTRYNWO</From>
<To>NAGMO</To>
<MessageID>COUNTRYNWO MGPMID20150312142310</MessageID>
  <MessageDate>2014-08-24T13:20:10.100+10:00</MessageDate>
  <TransactionGroup>ERFT</TransactionGroup>
  <Priority>Medium</Priority>
  <SecurityContext></SecurityContext>
  <Market>NSWACTGAS</Market>
```

</Header><Transactions>

<Transaction

transactionID="COUNTRYNWOTGPMD20150312142310" transactionDate="2015-03-12T14:23:10+10:00">

Heading/Column Designator	SA Mandatory/ Optional	Comment
GATE_POINT_ID	M	Translates during transform by mapping data to populate networkID and networkReceiptPointID attributes of the corresponding TotalGasInjectedData element.
GAS_DAY	M	Translates during transform by mapping data to populate the gasDate attribute of the corresponding TotalGasInjectedData element.
ENERGY_HR01	O	Discarded during transform.
ENERGY_HR02	O	Discarded during transform.
ENERGY_HR03	O	Discarded during transform.
ENERGY_HR04	O	Discarded during transform.
ENERGY_HR05	O	Discarded during transform.
ENERGY_HR06	O	Discarded during transform.
ENERGY_HR07	O	Discarded during transform.
ENERGY_HR08	O	Discarded during transform.
ENERGY_HR09	O	Discarded during transform.
ENERGY_HR10	O	Discarded during transform.
ENERGY_HR11	O	Discarded during transform.
ENERGY_HR12	O	Discarded during transform.
ENERGY_HR13	O	Discarded during transform.
ENERGY_HR14	O	Discarded during transform.
ENERGY_HR15	O	Discarded during transform.
ENERGY_HR16	O	Discarded during transform.
ENERGY_HR17	O	Discarded during transform.
ENERGY_HR18	O	Discarded during transform.
ENERGY_HR19	O	Discarded during transform.
ENERGY_HR20	O	Discarded during transform.
ENERGY_HR21	O	Discarded during transform.
ENERGY_HR22	O	Discarded during transform.
ENERGY_HR23	O	Discarded during transform.
ENERGY_HR24	O	Discarded during transform.
ENERGY	O	Transforms to the TotalGasInjectedData / TotalGasInjected element.

Heading/Column Designator	SA Mandatory/ Optional	Comment
READ_TYPE_FLAG	M	Discarded during transform.

6.7.3 ERFTLinepackAndUnaccountedForGasNotification (T2005)

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this transaction is described in section 6.7.3 (ERFTLinepackAndUnaccountedForGasNotification) of Participant Build pack 5 as the NSW form to be received by AEMO. The Distributor may send this transaction in the NSW form via the B2B Hub as aseXML, or may provide this in the current SA form (CSV file upload via FTP) as described in section 10.9.1 (User's Unaccounted For Gas (UUAFG)) of the SA/WA Interface Control Document. The following describes guidance for the CSV content to the aseXML equivalent.

The transforms are described as follows:

- CSV data is converted to the LinepackAndUnaccountedForGasNotification aseXML transaction.
- CSV data in the UUAFG (SA format) is translated to equivalent fields of the LinepackAndUnaccountedForGasNotification XML fields.
 - UUAFG values provided by SUB_NETWORK_ID, GAS_DAY and PARTICIPANT_GBO_ID are aggregated to SUB_NETWORK_ID and GAS_DAY level, and become LinepackAndUnaccountedForGasData / UnaccountedForGas.
 - LinepackAndUnaccountedForGasData / ChangeInLinepack element in the NSW aseXML form is optional and will not be provided.
 - The corresponding GAS_DAY is transformed to the gasDate attribute of the corresponding LinepackAndUnaccountedForGasData element.
 - The corresponding SUB_NETWORK_ID is mapped against lookup data to populate networkID attributes of the corresponding LinepackAndUnaccountedForGasData element.
- The new aseXML header elements populated from the CSV file name components, ie NSWACTGAS_UUAFG_[DISTRIBUTOR]_[RECEIVER]_ccyymmddhhmmss.CSV.
 - From element = [DISTRIBUTOR]
 - To element = [RECEIVER]
 - MessageID = [DISTRIBUTOR]MUUAFGccyymmddhhmmss
 - MessageDate = ccyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00
 - TransactionGroup = ERFT
 - Priority = Medium
 - SecurityContext is not required or may be empty
 - Market = [MARKETCODE]
 - transactionID = [DISTRIBUTOR]TUUAFGccyymmddhhmmss

- transactionDate = ccyyymmddhhmmss component in format of YYYY-MM-DDTHH:MM:SS.000+10:00

Example conversion

NSWACTGAS_UUAFG_COUNTRYNWO_NAGMO_20150312142310.CSV will translate to:

<Header>

<From>COUNTRYNWO</From>

<To>NAGMO</To>

<MessageID>COUNTRYNWO UUAFG20150312142310</MessageID>

<MessageDate>2015-03-12T14:23:10.100+10:00</MessageDate>

<TransactionGroup>ERFT</TransactionGroup>

<Priority>Medium</Priority>

<SecurityContext></SecurityContext>

<Market>NSWACTGAS</Market>

</Header><Transactions>

<Transaction

transactionID="COUNTRYNWO UUAFG20150312142310" transactionDate="2015-03-12T14:23:10+10:00">

Heading/Column Designator	SA Mandatory/Optional	Comment
SUB_NETWORK_ID	M	Translates during transform by mapping data to populate networkID attributes of the corresponding LinepackAndUnaccountedFor GasData element.
GAS_DAY	M	Translates during transform by mapping data to populate the gasDate attribute of the corresponding LinepackAndUnaccountedFor GasData element.
PARTICIPANT_GBO_ID	M	Discarded during transform due to aggregation.
UUAFG	M	Aggregated over SUB_NETWORK_ID and GAS_DAY and translates to LinepackAndUnaccountedFor GasData / UnaccountedForGas

6.7.4 ERFTParticipantCLPandUAGNotification

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this transaction is not required.

6.7.5 ERFTMatchedAllocationsDataNotification

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this transaction is not required.

6.8 NSW/ACT AEMO Reports

This section describes the NSW/ACT AEMO reports issued by AEMO and sent to Retailers and Distributor via the FRC HUB.

This section also describes the transactions by which the Distributor provides the wholesale data to AEMO.

6.8.1 AEMO to Participant Reports

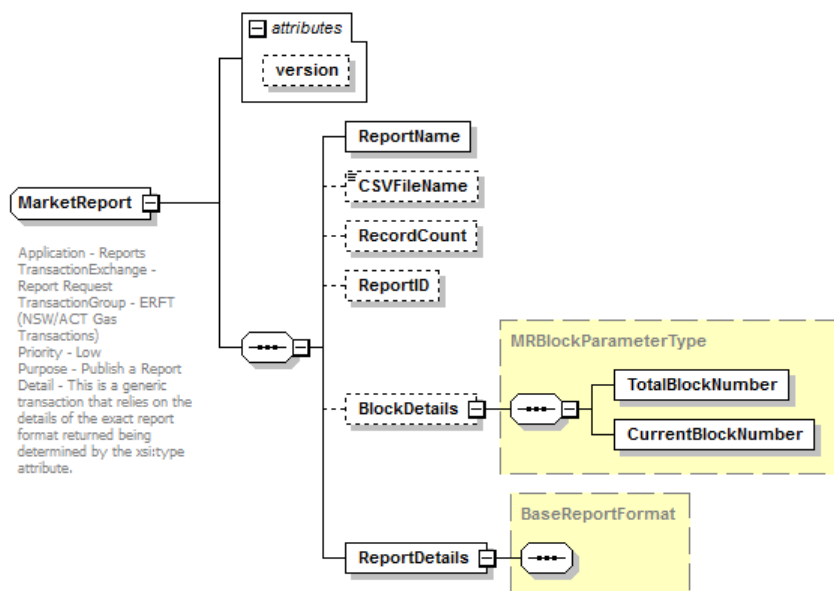
AEMO market reports to participants are generally implemented at a base minimum to CSV content, and may be delivered via:

- publication on to a participant MIBB folder as a CSV file.
- the FRC HUB wrapped in a generic aseXML transaction 'MarketReport' to a participant gateway (if nominated by the receiving party as preferred method of delivery);

Certain reports may be supported with equivalent XML content instead of CSV content. In this case the MarketReport transaction is still used but with a dedicated content type for that report set in the "xsi:type" attribute. These reports are flagged under their respective report detail descriptions with additional Transaction Data Elements.

Market reports do not require transaction acknowledgements from the receiving party.

Market report CSV files delivered via the participant MIBB folder will have a designated filename structure in line with the MIBB report naming standards as described in section 4.2.1 (File name and extension) of the User Guide to MIBB Reports document.



The following Transaction Data Elements table describes the aseXML MarketReport transaction wrapper, and applies for all report detail definitions as subsections under section 6.8.1 when delivered via the FRC HUB.

Transaction Data Elements

TRANSACTION:		MarketReport
Received From:		AEMO
Sent To:		Retailer Distributor
Data Element	Mandatory / Optional / Not Required	Comment
ReportName	M	This is the report name
CSVFileName	O	Designated file name of the instance of CSV data in the appropriate file name format. Required if report content ReportDetails xsi:type=" ase: CSVReportFormat "

		Not required if ReportDetails payload is XML content.
RecordCount	O	Specifies the number of records contained in the populated CSV element excluding the header row. Required if report content ReportDetails xsi:type="ase:CSVReportFormat"
ReportID	O	Used for managing delivery of a large data set. A common identifier to link a series of MarketReport transactions as component blocks of rows to be recombined at the recipient's system.
BlockDetails	O	Used for managing delivery of a large data set as component blocks of rows delivered in a series of MarketReport transactions (to be recombined at the recipient's system).
ReportDetails / CSVData	M	Contains the data in CSV format. If RecordCount is set to 0, then the value of CSVData element must be set to xsi:nil="true".
Xsi:type		An attribute of ReportDetails. Where CSV content is used, = "ase:CSVReportFormat"

6.8.1.1 ERFTBasicConsumptionRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.1 of Participant Build pack 5.

6.8.1.2 MeterReadingToUserHourlyRpt

ASEXML TRANSACTION		TRANSACTION TABLE	
Transaction Name	Ref No	Transaction Type	
MarketReport	2166		

TRANSACTION DEFINITION TABLE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE:
------------------------------	---

CROSS-REFERENCE	2166 – ERFTMETERREADINGTOUSERHOURLYRPT
Trigger	2167 – Interval Meter Read Data
Pre-conditions	
Post-conditions	
Transaction acknowledgment specific event codes	N/A

This report provides Hourly Meter Readings for non STTM network sections in CSV format from AEMO to Users.

Transaction Data Elements

This market report has type has no XML content equivalent. The CSV payload related Data Elements as described under the Transaction data elements table in section 6.8.1(AEMO to Participant Reports) apply.

TRANSACTION:		MarketReport
Received From:		AEMO
Sent To:		Retailer
csv file name base		int854b_v1_meterreadingtouserhourlyrpt
Data Element	Mandatory / Optional / Not Required	Usage
ReportName	M	MeterReadingToUserNonSTTM Rpt

The structure for the data in CSV format is described in the following Report Details table. The report is placed in MIBB private folders as a .csv file.

Report Details

ReportDetails / CSVData			
Heading	Primary key	Mandatory /Optional	Comment
mirn	Y	M	
mirn_checksum		M	
gas_date	Y	M	

ReportDetails / CSVData			
Heading	Primary key	Mandatory /Optional	Comment
ti	Y	M	
read_type		M	
consumption_gj		M	
current_date		M	Report generation date and timestamp Date format dd Mmm yyyy hh:mm:ss

The transaction is in the following format:

CSV Sample

```
mim,mim_checksum,gas_date,ti,read_type,consumption_gj,current_date
5256686454,4,06 Mar 2014,1,A,10000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,2,A,9000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,3,A,10000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,4,A,11000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,5,A,10000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,6,A,10000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,7,A,10000,07 Mar 2014 12:01:00
5256686454,4,06 Mar 2014,8,A,10000,07 Mar 2014 12:01:00
```

6.8.1.3 MeterReadingToUserNonSTTM Rpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.3 of Participant Build pack 5.

6.8.1.4 ERFTReconciliationResultsRpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.5 ERFTChangeOfStandingDataRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.5 of Participant Build pack 5.

6.8.1.6 ERFTCustomerChurnRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.6 of Participant Build pack 5.

6.8.1.7 ERFTEstimationResultsToUserRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described

in section 6.8.1.7 of Participant Build pack 5.

6.8.1.8 ERFTRevisedEstimationResultsToUserRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.8 of Participant Build pack 5.

6.8.1.9 ERFTEstimationResultsToNWORpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.10 ERFTRevisedEstimationResultsToNWORpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.11 ERFTForecastingDataRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.11 of Participant Build pack 5.

6.8.1.12 ERFTApportionmentPercentageRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.12 of Participant Build pack 5.

6.8.1.13 ERFTTotalGasInjectedRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.13 of Participant Build pack 5.

6.8.1.14 ERFTDailyNSLRpt

For NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is described in section 6.8.1.14 of Participant Build pack 5.

6.8.1.15 ERFTDailyToUserRpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.16 ERFTWeeklyToUserRpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.17 ERFTMonthlyToUserRpt

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this report is not required.

6.8.1.18 DPR Extract

For NSW/ACT where the network is “NSWCR” or “COUNTRY” this report is described in section 6.8.1.18 of Participant Build pack 5.

6.8.1.19 TotalCLPReport (AEMO to User)

In NSW/ACT where the network is “NSWCR” or “COUNTRY” this report is not required.

6.8.1.20 File confirmation (T2300)

This interface is described in section 5.1.47 (Int 253 File Confirmation) of the User Guide to MIBB Reports (version 8).

This file is an equivalent to an AEMO transaction acknowledgment for participant CSV file uploads via the MIBB.

6.8.1.21 Effective Degree Day (T2305)

In NSW/ACT where the network is “NSWCR” or “COUNTRY” this report is not required.

6.8.1.22 Latest Meter Read (T2156)

ASEXML TRANSACTION	TRANSACTION TABLE	
Transaction Name	Ref No	Transaction Type
	2156	Retail

TRANSACTION DEFINITION TABLE CROSS-REFERENCE	THIS INTERFACE REALISES THE FOLLOWING TRANSACTIONS FROM THE TRANSACTION DEFINITION TABLE: 2156 – Latest Meter Read
Trigger	
Pre-conditions	
Post-conditions	
Transaction acknowledgment specific event codes	N/A

The ERFTBasicConsumptionRpt report provides latest reads for basic meters in CSV format from the AEMO to the Retailers. The report is placed in MIBB private folders as a .csv file.

Transaction Data Elements

TRANSACTION:	MarketReport
Received From:	AEMO
Sent To:	Distributor
CSV File name base	int876_v1_latestmeterread

The structure for the data in CSV format is described in the following Report Details table.

Report Details

ReportDetails / CSVData			
Heading	Primary key	Mandatory/ Optional	Comment
mirn	Y	M	NMI
energy_mj		M	
read_type		M	'A','E','S', or 'C'
consumption_start_date		M	
consumption_end_date	Y	M	

The transaction is in the following format:

CSV Sample

```
mirn,energy_mj,read_type,consumption_start_date,consumption_end_date
5240731180,3921,A,14 May 2014,19 Jul 2014
5247189823,3316,A,29 Apr 2014,29 Jul 2014
```

6.9 Network Receipt Point allocation (Ref 2430, 2435)

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this is not required.

6.10 Upgrade or Downgrade of MIRN Request (Ref 2445, 2450)

In NSW/ACT where the network is "NSWCR" or "COUNTRY" this will be sent as per section 6.10 of Participant Build pack 5.



7. Appendix – A (Table of Transactions)

For NSW/ACT where the network is COUNTRY or NSWCR the B2B transactions are listed under Appendix D (Table of Transactions Cross-Reference) of the B2B System Interface Definition (For the SA and WA Gas Retail Markets). B2M transactions are listed as per Appendix A (Table of Transactions) in Participant Build Pack 5, and by extension the Process Flow Table in Participant Build Pack 1 Process Flow Table of Transactions v33.

The table below specifies new Transaction references to add to the Appendix A (Table of Transactions) in Participant Build Pack 5 and by extension the Process Flow Table in Participant Build Pack 1 Process Flow Table of Transactions v33 as applies to NSW/ACT (Wagga Wagga & Tamworth areas).

Ref No	X Ref	Basic, Interval or Both	GIP NON-GIP	Category	Proce dure Ref	Comment in ref to procedure	Proce ss Map ID	PBP2 &3 Inter Defin ref	Trans Type	Trigger	From	To	Purpose	Type	Method	Data Elements - Received (MIRN/NMI Interchangeable)	Data Elements - Sent back	Timing	Volume /Freq	Priority – H, M, L	Comments
500											Distributor	Market Operator	Provide Daily Zonal Heating Values	B2M		Gas_Date Heating_Value_Zone Heating_Value		Daily	1	L	
500A											Market Operator	Public	Publish Daily Zonal Heating Values	M2B		gas_date hv_zone hv_zone_description heating_value_mj current_date		Daily	1	L	
2166		Interval	GIP						Market Report		Market Operator	Retailer	ERFTMeterReadingToUser HourlyRpt	M2B	aseXML (CSV file embedded) or MIBB report	mirn mirn_checksum gas_date ti read_type consumption_mj		Daily	10	L	
2167		Interval	GIP						IntervalMe terData		Distributor	Market Operator	IntervalMeterData	B2M	CSV file upload	mirn mirn_checksum gas_date ti read_type consumption_mj current_date		Daily	10	L	

8. Appendix – B (NSW/ACT data element equivalent or usage)

Following table shows the existing data elements to be used to populate the same information from the NSW/ACT Retail Market.

This table also lists any data elements where the element value defaults to a specific value for NSW/ACT FRC.

Existing Data Element	NSW/ACT Equivalent or usage.
MelwayGridReference	UBD Street Directory map reference
Market	Embedded aseXML samples in PBP1, PBP2 or PBP3 refer to VICGAS for the Market jurisdiction. For NSW/ACT, the equivalent Market element to use is NSWACTGAS. Prior to aseXML r34, NSWACTGAS is not available in the enumerations list. Transactions sent or received in an earlier schema would take the equivalent value as NSWGAS.

9. Appendix – C (NSW/ACT Data Dictionary – CSV Data Elements)

The table below specifies the column designators for CSV data elements used only for NSW/ACT as specific to where the network is COUNTRY or NSWCR. Details for applicable and pre-existing CSV elements (for incumbent CSV based transactions) should be referenced in the source artefacts as noted in Participant Build Pack 5, or the SA specification pack. Note, the order of CSV column designators is fixed and is as per definition of CSV files given by this document. All CSV data elements that convey time stamps represent them as Market Time, i.e. EST; no time zone information is required.

CSV Element Name	Element Name	Description	Attributes/ Format	Length/ Decimal Places	Allowed Values
B2B JOB CODE	B2B JOB CODE		String	4	
CHARGE (excl. GST)	Ancillary Charge excluding GST		Numeric	9,2	
CHARGE (incl. GST)	Ancillary Charge including GST		Numeric	9,2	
CHARGING CODE	CHARGING CODE		String	50	
DATE_COMMENCED	DATE_COMMENCED		Date	10	ccyy-mm-dd
DESCRIPTION	Ancillary Charges Description		String	100	
Heating_Value	Heating_Value	The Heating value is in MJ per standard cubic meters	Numeric	5,2	
Heating_Value_Zone	Heating_Value_Zone	Heating value zone as assigned by the distributor	Integer		
heating_value_mj	heating_value_mj	The Heating value is in MJ per standard cubic meters	Numeric	5,2	
hv_zone	hv_zone	Heating value zone as assigned by the distributor	Integer		
hv_zone_description	hv_zone_description	Name of the heating value zone	String	254	
LONG DESCRIPTION / COMMENT	Ancillary Charges Long Description		String	254	

10. Appendix – D (NSW/ACT Data Dictionary – ASEXML Data Elements)

The table below specifies the additional (or affected) aseXML data elements used for NSW/ACT as specific to where the network is COUNTRY or NSWCR. Details for applicable and pre-existing CSV elements (for incumbent CSV based transactions) should be referenced in the source artefacts as noted in Participant Build Pack 5, or SA SID Appendix A and SAWA ICD.

ASEXML ELEMENT NAME	TABLE OF TRANSACTIONS ELEMENT NAME	DESCRIPTION	ATTRIBUTES/FORMAT	LENGTH/DECIMAL PLACES	ALLOWED VALUES
ChangeReasonCode					For error corrections: '0004' in the NSW format becomes '0003' in the SA format.
Market					Where NSWACTGAS is not include in the SA market applicable aseXML schema version: NSWACTGAS is transformed to NSWGAS
ObjectionCode					<p>NSW valid codes for CDB/NO Role are 'DBCONTR' or 'HAULAGE'.</p> <p>NSW valid code for CFRO/USER Role is 'NOTERROR'.</p> <p>All NSW codes translate to 'DECLINED' for SA valid codes. The context is based on the Role</p>

ASEXML ELEMENT NAME	TABLE OF TRANSACTIONS ELEMENT NAME	DESCRIPTION	ATTRIBUTES/ FORMAT	LENGTH/ DECIMAL PLACES	ALLOWED VALUES
					element. In the case of the Distributor sending the Objection request in SA format, the default translation will be to 'DBCONTR' in NSW format.
Role					'CDB' in the NSW format becomes 'NO' in the SA format (if transform required). 'CFRO' or 'NFRO' in the NSW format generally becomes 'USER' in the SA format (is transform required). In the context of an Objection Role, 'CFRO' transforms to 'CU'.

11. Appendix – E (NSW/ACT Event Codes)

The table below specifies the additional event codes used for NSW/ACT.

The table below specifies the additional (or affected) event codes used for NSW/ACT as specific to where the network is COUNTRY or NSWCR. Details for applicable and pre-existing error codes should be referenced in the source artefacts as noted in Participant Build Pack 5, or the SA specification pack.

CATEGORY (CODE RANGE)	CODE	DESCRIPTION	SEVERITY	INVOKING TRANSACTION

12. Appendix – F (Table of Transactions - Elements)

The table below specifies the additions or updates as specific to NSW/ACT where the network is COUNTRY or NSWCR to the Elements Table as provided in Appendix F of Participant Build Pack 5 (and by extension Participant Build Pack 1 Process Flow Table of Transactions).

Element	Description	Attributes / Format	Length/ Decimal Places	Code Used (Y/N)	If Code Valid Values are:
Estimation/Substitution Reason Code	Code that identifies why the Energy Flow was estimated/substituted	Alpha	2	Y	00 - Other 01 - Meter Removed 02 - Meter Obstructed 03 - Dirty Dial 04 - Can't Locate Meter 05 - Gate Locked 06 - Savage Dog 07 - Meter Changed 08 - Refused Access 09 - Locked & No Answer 10 - Delayed Read 11 - Adjustment Read 12 - Damaged Meter 13 - Dial Out of Alignment 14 - Key Required 15 - Access Overgrown 16 - Hi/Low Failure 17 - Meter Capacity Failure Note this value is not valid for NSW/ACT where the network is 'COUNTRY' or 'NSWCR': 18 – Customer bad read
Job Completion Code 3	Code that represents the work undertaken by the Distributor.	Alpha	2	Y	31 = Not Registering 33 = Not Passing 34 = Leaking 37 = Noisy 42 = Damaged



					44 = For Official Test 45 = Time Expired 47 = Inadequate Size 51 = Non Payment of Arrears 52 = Non Payment of Security Deposit 53 = Unknown Consumer 55 = Building Demolished 58 = Turned On Unofficially/Fraudulent Use 59 = Missing from Premises 63 = Not Wanted 72 = Make Safe Note this value is not valid for NSW/ACT where the network is 'COUNTRY' or 'NSWCR': 99 = Quote Required
MIRN Status	For NSW/ACT where the network is 'COUNTRY' or 'NSWCR', the status of 'Unclaimed' is not applicable.	Alpha	20	Y	"Registered" = upstand + no meter "Commissioned" = upstand + meter connected "Decommissioned" = upstand + meter disconnected/turned off "Deregistered" = all removed Note this value is not valid for NSW/ACT where the network is 'COUNTRY' or 'NSWCR': "Unclaimed" = upstand + meter connected with pipe plugged and no FRO assigned
NetworkID	Code that identifies a NMI that is connected to a specific Network Section.	Alpha	12	Y	"01" denotes Envestra Non DTS in Bairnsdale "04" denotes Multinet Non DTS in South Gippsland For the avoidance of doubt, "00" denotes DTS and "03" is used for Queensland. For NSW/ACT, this uses the Network ID (as network section) codes in section 4 of Participant Build Pack 6



13. Appendix – G (Table of Transactions – Job Enquiry Codes)

For NSWACT where the network is COUNTRY or NSWCR, Service Order processes as a whole will follow section 4.2 (Service Orders) of the B2B Interface Definition (For the SA and WA Gas Retail Markets), and by extension the SA DEFINITION AND USAGE as described on the Job Enquiry Codes sheet of Attachment A2 Participant Build Pack 1 (Process Flow table of transactions).

14. Appendix – H (WWT Gas Zone Codes)

This section shows the application to the WWT *network sections* of the gas zone coding structure under the Retail Market Procedures for South Australia.

		CODING OF GAS ZONES					CODING OF GATE POINTS	
		TRANSMISSION ZONE		HEATING VALUE ZONE		ABCCD as example	Pipeline the Gate is connected to	ABCCE As example
		Network Operator	Licence Area & AA Coverage	Sub-network	Gas Zone within the sub- network		E	
Network	HUB Participant ID	A	B	CC	D			
AGNL SA (formerly Envestra)	ENVSA	2	1	01,02,03,04,05,06,07, 08,09,11,12,13,14,50, 51,52,53,54,55,56,57, 58,59,60	1,2,3	21011	S,M,K,R	2101M
AGNL Mildura GDS	ENVSA	2	2	10	1	22101	R	2210R
AGNL NSW	COUNTRY NWO	8	8	90,91,92,93,94,95,96, 97,98	6,7,8	88907	E,O,V	8898V
APA NSW	CRPNWO	9	9	99	9	99999	C	9999C

Existing WW&T			WW&T based on SA Coding Structure										
NETWORK SECTION / NETWORKID	PARTICIPANT	NETWORK RECEIPT POINT ID	SUB NETWORK	HUB Participant ID	A	B	CC	D	GAS ZONES ABCCD	E	GATE POINTS ABCCE	TRANSMISSION ZONE (AB)	HEATING VALUE ZONE (CCD)
NSWCOOMA	COUNTRY	DUKECOOMA	Cooma	COUNTRYNWO	8	8	90	7	88907	E	8890E	88	907
NSWWAGGA	COUNTRY	EAPLWAGGA	Wagga	COUNTRYNWO	8	8	91	6	88916	A	8891A	88	916
NSWTEMORA	COUNTRY	EAPLWALENBEN	Temora	COUNTRYNWO	8	8	92	6	88926	A	8892A	88	926
NSWCULCAIRN	COUNTRY	EAPLCULCAIRN	Culcairn	COUNTRYNWO	8	8	93	6	88936	A	8893A	88	936
NSWHENTY	COUNTRY	EAPLHENTY	Henty	COUNTRYNWO	8	8	94	6	88946	A	8894A	88	946
NSWBOMBALA	COUNTRY	DUKEBOMBALA	Bombala	COUNTRYNWO	8	8	95	7	88957	E	8895E	88	957
NSWTUMUT	COUNTRY	GSNTUMUT	Tumut	COUNTRYNWO	8	8	96	6	88966	A	8896A	88	966
NSWGUNDAGAI	COUNTRY	GSNGUNDAGAI	Gundagai	COUNTRYNWO	8	8	97	6	88976	A	8897A	88	976
NSWWALLA	COUNTRY	GPUWALLA	Walla	COUNTRYNWO	8	8	98	8	88988	V	8898V	88	988
NSWTAMWORTH	NSWCR	CRPWALLAMORE	Tamworth	CRPNWO	9	9	99	9	99999	C	9999C	99	999

ABCCD and ABCCE, where:**A**

2 = Envestra
 8 = AGNL NSW
 9 = APA CRP NSW

B

Envestra in SA:
 1 = Envestra SA GDS
 2 = Envestra Mildura GDS
 AGNL in NSW:
 8 = AGNL NSW GDS
 APA in NSW:
 9 = APA CRP Tamworth GDS

(PTS)

CC

AGNL in NSW (i.e. where A = 8) CC equals as follows:

90 = Cooma
 91 = Wagga
 92 = Temora
 93 = Culcairn
 94 = Henty
 95 = Bombala
 96 = Tumut
 97 = Gundagai
 98 = Walla

APA in NSW (i.e. where A = 9) CC equals as follows:

99 = Tamworth

D

For AGNL NSW, D =

6 = Young - Moomba to Sydney Pipeline (MSP)
 7 = Cooma - Eastern Gas Pipeline (EGP)
 8 = Walla - Victorian Prescribed Transmission System (PTS)
 For APA NSW, D =
 9 = Tamworth - Central Ranges Pipeline (CRP)

E

AGNL in NSW:

A = Moomba to Sydney Pipeline (MSP)
 E = Eastern Gas Pipeline (EGP)

V = Victorian Prescribed Transmission System

APA in NSW:

C = Central Ranges Pipeline (CRP)

