

IMPACT & IMPLEMENTATION REPORT (IIR)

Issue number	IN009/19W and IN010/20W.		
Impacted jurisdiction(s)	<ul style="list-style-type: none"> Western Australia 		
Proponent	Mark Riley	Company	AGL
Affected gas market(s)	<ul style="list-style-type: none"> Retail 	Consultation process (ordinary or expedited)	Ordinary
Industry consultative forum(s) used	GRCF	Date industry consultative forum(s) consultation concluded	Friday, 4 September 2020
Short description of change(s)	Provide meter status information in Western Australian gas retail market transactions.		
Procedure(s) or documentation impacted	See Section 2		
Summary of the change(s)	WA Network Operator to provide meter status information in four existing transactions. Also, two new meter statuses are to be added to the existing aseXML enumeration list which will be used in the WA gas retail market		
IIR prepared by	Danny McGowan	Approved by	Michelle Norris
Date IIR published	22 September 2020	Date consultation concludes	20 October 2020
Email address for responses	grcf@aemo.com.au		
Other key contact information			



IMPACT & IMPLEMENTATION REPORT

CRITICAL EXAMINATION OF PROPOSAL AND SUBMISSION DETAILS

1. DESCRIPTION OF ISSUE

1.1. Network Operator to provide meter status information in four existing transactions (IN009/19W)

Currently the Specification Pack (SP) documents¹ specify that the meter status codes are not used in the Western Australian (WA) gas retail market. There are four transactions within the SP that contain a meter status field. These are:

- NMIDiscoveryResponse
- NMISTandingDataResponse
- MeterDataNotification / CSVconsumptionData
- CSVHistoryResponseData²

The proposal that AGL has put forward requires the WA Network Operator (ATCO) to provide the status of the gas meters capability to flow gas (eg meter status) in the transactions mentioned above, and in the same format as described in the east-coast Participant Build Packs.

The meter status field contained within the r13 aseXML schema format describes this field as an enumerated list comprising the following values:

- Turned on.
- Turned off.
- Plugged.
- No meter.

The rationale that AGL has put forward in support of this initiative relates to the current WA process which involves the Network Operator initiating an internal Service Order Request (SOR) to re-connect a customer. Charges for that re-connection work are passed onto the User³, who would generally pass them through to the customer. There are multiple methods of disconnection, hence there are multiple SOR types for reconnection, with various charges assigned to these activities. Given that the status of the gas meter isn't provided in the MIRN⁴ Discovery Response transaction, it means that Users are having to manually follow-up with Network Operator so the correct information about re-connection costs can be passed onto the customer.

1.2. Add two new meter statuses to the existing enumeration list (IN010/20W)

As noted in section 1.1 of this IIR, there are currently four values listed in the meter status enumerated list. A recent exercise to map the existing values against the ATCO re-connection charges revealed that it was not possible to align them. This mapping exercise also revealed that WA has two additional meter disconnection methods to prevent a gas meters capability to flow gas, compared to the east-coast. These are:

¹ Click [here](#) to view the FRC B2B Systems Interface Definition. See sections 4.3.2.3, 4.3.2.6 and 4.1.2.1.

² The transaction isn't part of the suite of aseXML transaction. It is e-mailed by the Network Operator to the User.

³ User is a term used throughout the WA scheme documentation. In the east-coast "Retailer" is the equivalent term.

⁴ Meter Installation Registration Number



- Trailer Air Coupling (TAC) isolation device; and
- Removing the regulator from the meter.

To resolve the mapping alignment and the two additional metering disconnection methods, AGL has proposed that the following new meter status codes be added to the enumerated list:

- Trailer AC
- No Reg

These new meter status values will be described in the SP as “allowable” meter status values in the WA gas retail market.

1.3. Submission details and key feedback areas

Using the response template in Attachment A, AEMO is seeking feedback from participants on whether your organisation supports AEMO’s post first round consultation examination of the proposal and the recommendation as described in this IIR. Submission close 20 October 2020 and should be emailed to grcf@aemo.com.au

2. REFERENCE DOCUMENTATION

2.1. Schema release documentation

Click [here](#) to view the index of Schema Releases from r28 to r38 inclusive.

2.2. Specification Pack (SP) documentation

Attachment B and C contains each SP document showing tracked changes between the current version and the proposed solution.

3. OVERVIEW OF CHANGES

For IN009/19W, this proposal involves ATCO populating the meter status field for four transactions described in section 1.1 with the aseXML enumerated meter status codes. See Attachment B, Part A - FRC B2B system interface definitions and Part B - B2B Service Order Specifications - Part 1 for details on the additional meter status codes.

For IN010/20W, this proposal involves adding new meters status codes to the existing list of aseXML enumerated meter status codes. See Attachment C, Part A - FRC B2B system interface definitions and Part B - B2B Service Order Specifications - Part 2 for details on the additional meter status codes.

4. LIKELY IMPLEMENTATION EFFECTS AND REQUIREMENTS

Effect on Users and the Network Operator

It is anticipated that all User and the Network Operator will need to make the following incremental⁵ IT system changes:

- The Network Operator to provide the meter status information in the four transactions described in section 1.1.

⁵ In the east-coast jurisdictions, Retailers, Distributors, and AEMO will be making IT system changes to implement the new Gas Life Support transactions and the enhanced Customer Details Notification (CDN) transaction and the new Customer Detail Request (CDR) transaction in Q4 2021. For further details please refer to the [IN003/20](#) and [IN011/20](#) consultations. In WA Users, the Network Operator and AEMO will be making IT system changes to implement the new Customer Details Notification (CDN) transaction and the new Customer Detail Request (CDR) transaction in Q4 2021. For further details please refer to the [IN003/20W](#) consultation.



- Modify gas gateways to send and receive transactions in the new aseXML schema version (which will be a version beyond r38) that will contain the updated meter status aseXML enumeration list.
- Incorporate the new meter status into the WA gas retail market systems.
- Complete a recertification process on all impacted transactions⁶. The recertification of the transaction involving the meter status will be added to the other transactions that make up the Q4 2021 bundle release program of work. Further information about recertification window will be issued in Q1 2021.

Effect on AEMO

FRC Hub changes

- AEMO will need to ensure that transactions with the new aseXML schema version (which will be a version beyond r38) containing the updated meter status aseXML enumeration list that can pass through the FRC Hub.

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

- Modify AEMO's WA gas gateways (managed by CGI, AEMO's outsourced service provider for WA) so they have the capability to send and receive new aseXML schema version (which will be a version beyond r38) transactions.
- Modify the WA Low Volume Interface that is managed by CGI so that this interface service will have the capability to send and receive new aseXML schema version transactions (which will be a version beyond r38).
- Modify the pre-production/certification environment responders to support the new aseXML schema version transactions.
- Complete a recertification process on all impacted transactions.
- In addition to these technical changes, AEMO will prepare a schema manifest document that summaries each schema version change and will also facilitate the coordinated release program, as it has done for prior gas retail market aseXML schema uplift changes (a version beyond r38). AEMO is targeting to have a schema manifest document before Q4 2020.

Implementation timeframes

In terms of an implementation timeframe, the optimal and most cost-effective timeline would be to bundle this change with the east coast Gas Life Support (GLS) changes (IN003/20) and with the east and west coast CustomerDetailsRequest (CDR) and CustomerDetailsNotification (CDN) transactions changes (IN011/20 and IN003/20W).

The most practical option for AEMO and participants in relation to timing is therefore Q4 (Oct to Dec) 2021.

⁶ Click [here](#) to view the recertification process for WA



5. OVERALL COST AND BENEFITS

AEMO's incremental cost to implement the changes proposed in this IIR and the other non-gas life support initiatives will be less than \$50,000. The overall estimated cost to AEMO for the entire program of works⁷ is \$460,000.

The estimated cost for gas retail market participants to implement this change will vary for each organisation and depend on several factors, including but not limited to, the complexity of IT system changes for that organisation.

Specific benefits will include:

- Removes the manual processes and delays in seeking the disconnection method used within the WA gas retail market.
- Allows users to quickly seek customer approval of charges when a SOR is required. This should in turn reduce the number of change requests being cancelled due to delays in gaining customer approval.

The initiatives described in this IIR were also discussed as part of workshop held on the 30 July 2020. AGL proposed that fourth character of existing JECs should be utilised to convey the reason why a JEC is being sent for AML (Attach meter lock), DSD (Disconnect in Street) MRM (Regulator Removal Request) and TCI (Trailing air Coupling Installation). Section 1.2.2 of this PPC provides further information on the specific characteristics of AGL's proposal.

Following a workshop on 30 July 2020, a collaborative effort was undertaken by a small number of stakeholders to develop the SP that describes in detail how the adding of the meter status codes in the four transaction will be applied. These draft SPs were circulated to ATCO for review. ATCO agreed that the SP encapsulated the requirements and supported the proposal. AEMO believes that there were no dissenting views put forward by any stakeholders following the 30 July 2020 workshop meeting that is in opposition to the changes described in this IIR.

Section 1 of this IIR contains a full list of the requirements that will be prescribed in the SP as "allowable" meter status codes in the WA gas retail market, should this change be approved.

For further information about this proposal in terms of issues, benefits and materiality please refer to the workshop slides (see Attachment D).

Given the general industry support (see Section 9) for the changes and the above listed benefits, AEMO believes that the benefits outweigh the costs for both WA (i.e. the changes provide a net benefit for industry as a whole).

6. MAGNITUDE OF THE CHANGES

AEMO has deemed this change to be material because of the change to IT systems and the industry coordination effort required to uplift the aseXML schema to a schema version beyond r38.

7. AEMO'S PRELIMINARY ASSESSMENT OF THE PROPOSAL'S COMPLIANCE WITH CLAUSE 378 OF THE RMP:

As part of the first-round consultation (PPC), AEMO put forward the following assessment regarding compliance with clause 378 of the RMP:

⁷ Includes IN003/20 (Gas Life Support changes – east coast only), IN011/20 and IN003/20W (both relate to Customer Detail Notifications and Customer Request Notification changes), IN002/15W and IN026/15 (both relate to Job Enquiry Code changes), IN009/19W (Add Meter Status code to transactions – WA only) and IN010/20W (Add new meter status codes – WA only).



<p>Ensure that the retail gas market operates and is governed in a manner that is,</p> <ul style="list-style-type: none"> (i) open and competitive; (ii) efficient; and (iii) fair to participants and their customers 	<p>AEMO’s view is that the proposed change will continue to promote competition, will promote efficiency in meter connections and disconnections, and will not disadvantage participants or their customers.</p>
<p>Ensure compliance with all applicable laws</p>	<p>AEMO’s view is that the proposed changes are consistent with the applicable laws, and participants will be given an opportunity during this PPC consultation to inform AEMO if they believe the proposed change is in conflict with any applicable laws.</p>
<p>Ensure effective consultation occurs and gives stakeholder’s opportunities to provide feedback of the proposed changes</p>	<p>AEMO’s view is that this PPC consultation and the subsequent IIR consultation, in addition to the pre-consultation GMIs and discussions at the GRCF, will provide adequate opportunities for participants to provide feedback on the proposed changes.</p>

No participant put forward any opposing views in relation to AEMO assessment during the first-round consultation therefore AEMO maintains its original assessment described in the previous points as noted above.

8. CONSULTATION FORUM OUTCOMES

On 20 August 2020 AEMO published a PPC and participants were invited to provide feedback on AEMO’s assessment of the both proposals (IN009/19W and IN010/20W). Submission closed on 4 September 2020. AEMO received responses from AGL, Alinta Energy, ATCO, Origin Energy, Simply Energy and Synergy. All participants expressed their support that the changes described in the PPC should proceed. None of the responses opposed AEMO assessment which indicated that benefits in aggregate will outweigh the cost if bundled with other changes namely IN003/20W (WA CDN and CDR) and IN002/15W (Add new Job Enquiry Codes). Some participants gave technical feedback on the draft SP documents; this feedback and AEMO’s response thereto is provided in Attachment E.

9. SUPPORTING DOCUMENTATION

Please see Attachment B and C for change-marked SPs.



IMPACT & IMPLEMENTATION REPORT – RECOMMENDATION(S)

10. SHOULD THE PROPOSED PROCEDURES BE MADE)?

AEMO recommends the changes proposed in Attachment B and C. This includes two minor changes put forward during the first-round consultation. These additional changes are described in Attachment E (see ref # 14 and 15).

11. PROPOSED TIMELINES

Subject to all necessary approvals, AEMO proposes the following timeframe:

- Issue IIR on 22 September 2020.
- IIR feedback due 20 October 2020.
- Economic Regulation Authority (ERA) submission issued in early November 2020.

AEMO will work with ERA on the process to set an effective date for these changes. The target effective date for these changes is Q4 (Oct-Dec) 2021.



ATTACHMENT A – IIR RESPONSE TEMPLATE

The IIR response template has been attached separately to this document. There are two sections in the template:

- Sections 1 A and 1 B seeks feedback on AEMO’s examination of the proposed changes.
- Section 2 seeks feedback on the marked-up changes to the TPs described in Attachments B and C.

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

Submissions close Tuesday 20 October 2020 and should be emailed to grcf@aemo.com.au.



ATTACHMENT B – IN009/19W SPECIFICATION PACK CHANGES (SEE SECTION 2)

PART A - CHANGES TO THE FRC B2B SYSTEM INTERFACE DEFINITIONS

Blue underline means addition ~~red strikethrough~~ means delete Strategy and Markets

Section 4.1.2.1 Meter Data Notification / CSV consumptionData

Heading	Victoria & SA/WA Mandatory/Optional	Comment
NMI	M	
NMI_Checksum	M	
RB_Reference_Number	O	This element will not be provided if the Read is initiated by a Network Operator. The element is always Required if the User initiated the service order and provided the RB_Reference Number. 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 AEMO.
Reason_for_Read	M	
Gas_Meter_Number	M	
Gas_Meter_Units	M	
Previous_Index_Value	O	Required unless this is the first read for a meter. If not provided the Consumed_Energy will be zero.
Previous_Read_Date	O	Required unless this is the first read for a meter. If not provided the Consumed_Energy will be zero.
Current_Index_Value	M	
Current_Read_Date	M	
Volume_Flow	M	Volume Flow is measured in cubic meters
Average_Heating_Value	M	
Pressure_Correction_Factor	M	
Consumed_Energy	M	Consumed Energy is measured in Megajoules
Type_of_Read	M	
Estimation_Substitution_Type	O	Required if Type of Read = "E" or "S"
Estimation_Substitution_Reason_Code	O	Required if Type of Read = "E" or "S"
Meter_Status	M	<u>For SA</u> 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	
Hi_Low_Failure	M	
Meter_Capacity_Failure	M	
Adjustment_Reason_Code	M	If not = "NC" indicates Meter Data Adjustment
Energy_Calculation_Date_Stamp	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	This element is defined for use in the corresponding B2M transactions. It is not required for the transactions in this document.



Section 4.3.2.3 NMI Discovery Response

4.3.2.3. NMIDiscoveryResponse (WA – seeham R13)

<i>Transaction Definition Table cross-reference</i>	<p>This interface realises the following transactions from the GPTWG Transaction Definition Table:</p> <ul style="list-style-type: none"> • 281 – MIRN Standing Data • 284 – MIRN Additional Data <p>Note. The <u>NMISstandingDataResponse</u> transaction also realises these transactions when the request is a <u>NMISstandingDataRequest</u> transaction.</p> <p>Note: Transaction 281 will be used where the Network Operator identifies multiple MIRNs for an address.</p>
<i>Trigger</i>	Completion of processing of the <u>NMIDiscoveryRequest</u> transaction.
<i>Pre-conditions</i>	None
<i>Post-conditions</i>	User has the MIRN Standing Data, or a record of failure of processing of the <u>NMIDiscoveryRequest</u> data and all errors detected.
<i>Transaction acknowledgment specific event codes</i>	3602, 3680 (Also the generic event codes 3603, 3659, 3662, 3673 can be used)

The NMIDiscoveryResponse transaction provides the MIRN Standing Data to the requestor or



Section 4.3.2.3.NMI Discovery Response

Transaction Data Elements

Transaction:		NMIDiscoveryResponse	
Received From:		Network Operator	
Sent To:		User	
Data Element	SA & WA: Mandatory / Optional / Not Required	VIC: Mandatory / Optional / Not Required	Usage
NMI	M	M	
Checksum	M	M	Implemented as an attribute of the NMI aseXML element
DistributionTariff	O	O	Always Required if meter is attached for single MIRN responses. Not to be provided for multiple responses.
TransmissionZone	O	M	Always required for single MIRN responses. Not to be provided for multiple responses.
HeatingValueZone	O	M	Always required for single MIRN responses. Not to be provided for multiple responses.
CustomerCharacterisation	O	O	Always Required if Basic Meter is attached in SA for single MIRN responses. Not to be provided for multiple responses. Never Required in WA
MIRNStatus	O	M	Always required for single MIRN responses. Not to be provided for multiple responses.
MeterSerialNumber	O	O	Required if meter is attached.
PressureCorrectionFactor	O	O	Always Required if basic meter is attached for single MIRN responses. Not to be provided for multiple responses.
MeterStatus	O	M	If MeterStatus is set to "No Meter", then no meter is attached to the MIRN. This applies to SA Only. Always required for single MIRN responses. Not to be provided for multiple responses. Not used in WA.
SupplyPointCode	O	O	Always Required if meter is attached for single MIRN responses. Not to be provided for multiple responses.
Current/ ReadDate	O	O	Always Required if Basic Meter is attached for single MIRN responses. Not to be provided for multiple responses.
NextScheduledReadDate	O	O	Always Required if Basic Meter is attached for single MIRN responses. Not to be provided for multiple responses.
MeterReadFrequency	O	O	Always Required if Basic Meter is attached for single MIRN responses. Not to be provided for multiple responses.
NextScheduledSpecialRead/ Preferred/ Date	O	O	Optional if Basic Meter is attached. Populated if there is a Special Read appointment booked against this MIRN. Not to be provided for multiple responses.
CommunicationEquipmentPresent	O	O	Required if Interval Meter is attached. Not to be provided for multiple responses.
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". Not to be provided for multiple responses. Not used in WA
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". Not to be provided for multiple responses. Not used in WA
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". Not to be provided for multiple responses. Not used in WA
Address	M	M	In aseXML structured format
AdditionalDataToFollow	M	M	Only applies to SA. For multiple responses the value will always be 'false'. In WA value will always be "false"
Event	M	M	Set to '0' if no errors or events to report. May be repeated any number of times.
ScheduledReadingDayNumber	O	Not Included	Required in WA if a basic meter is attached, not included in SA. Not to be provided for multiple responses.
MeterTypeSizeCode	O	Not Included	Required in WA. Not to be provided for multiple responses.



Section 4.3.2.6.NMI StandingDataResponse

Transaction Data Elements

Transaction:		NMIStandingDataResponse	
Received From:		Network Operator	
Sent To:		User	
Data Element	SA & WA: Mandatory /Optional / Not Required	VIC: Mandatory / Optional / Not Required	Usage
NMI	M	M	
checksum	M	M	Implemented as an attribute of the NMI aseXML element
DistributionTariff	O	O	Required if meter is attached
TransmissionZone	M	M	
HeatingValueZone	M	M	
CustomerCharacterisation	O	O	Required in SA if Basic Meter is attached. Not Required in WA
CustomerClassificationCode	O	O	Mandatory in South Australia, Victoria and Queensland.
CustomerThresholdCode	O	O	Not required where CustomerClassificationCode is "RES".
MIRNStatus	M	M	If "Commissioned" indicates that a meter is attached. If so meter data is to be provided.
MeterSerialNumber	O	O	Required if meter is attached
PressureCorrectionFactor	O	O	Required if meter is attached
MeterStatus	O	O	Required if meter is attached
SupplyPointCode	O	O	Required if meter is attached
Current/ ReadDate	O	O	Required if Basic Meter is attached.
NextScheduledReadDate	O	O	Required if Basic Meter is attached.
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". Not used in WA
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". Not used in WA
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". Not used in WA
Address	M	M	
AdditionalDataToFollow	M	M	Will always be "false" for WA. May be "true" or "false" for SA.
Event	M	M	Set to '0' if no errors or events to report. May be repeated any number of times.
ScheduledReadingDayNumber	O	Not Included	Required in WA (if a basic meter is attached), not included in SA
MeterTypeSizeCode	O	Not Included	Required in WA, not included in SA



Appendix E.

Non Automated Electronic Files

Energy History Responses (T46)

Transaction 46, CSVHistoryResponseData			
Heading/Column designator	SAWA Mandatory/Optional	Victoria Mandatory/Optional	Comment
NMI	M	M	
NMI_Checksum	M	M	
RB_Reference_Number	O	O	
Reason_for_Read	M	M	
Gas_Meter_Number	M	M	
MeterTypeSizeCode	M	Not included	
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	M	Volume Flow is measured in cubic meters
Average_Heating_Value	M	M	
Pressure_Correction_Factor	M	M	
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"
Meter_Status	O	M	This element reflects the current meter status. Not used 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.



Appendix A

Data Dictionary - aseXML Data Elements

aseXML Element Name	Element Name	Description	Attributes /Format	Length/ Decimal Places	Allowed Values
MeterReadFrequency	Meter Read Frequency	Frequency on which the meter is read	String	Enum	"Bi Monthly" "Monthly" "Quarterly"
MeterSerialNumber	Gas Meter Number	Number located on the gas meter.	String	12	
MeterStatus	Meter Status	Field that confirms if a disconnection has taken place. Meter Disconnection by User notification to Network Operator. For WA Field that defines the status of the meter, effectively Turned ON or describes method of disconnection.	String	Enum	"Turned on" "Turned off" "Plugged" "No meter" Not used in WA Market
MeterTypeSizeCode	Meter Type Size Code	Identifies type of meter	String	3	In WA: Digit 1 = Meter Type 'B' or 'I' Digit 2 = Index Type 'M' or 'I' Digit 3 = Number of Dials (1 to 7) In SA: Network Operator defined.

CSV Data Elements

Meter_Position	Meter Position		String	40	
Meter_Read_Frequency	Meter Read Frequency	In the Annual Meter Reading Schedule indicates how frequently the meter is read	String	1	"B" = Bi-Monthly "M" = Monthly "Q" = Quarterly
Meter_Status	Meter Status	Field that confirms if a disconnection has taken place. Meter Disconnection by User notification to Network Operator. For WA Field that defines the status of the meter, effectively Turned ON or describes method of disconnection.	String	10	"Turned on" "Turned off" "Plugged" = Meter is disconnected "No meter" If this Meter Status is mandatory in a transaction, then it will always be "Turned-On" in WA as meter status has no meaning in WA.



ATTACHMENT C – SPECIFICATION PACK CHANGES IN010/20W (SEE SECTION 2)

PART A - CHANGES TO THE FRC B2B SYSTEM INTERFACE DEFINITIONS

Note 1: changes for IN010/20W are shown in green underline. This indicates additions.

Note 2: the marked chances shown in Blue underline and ~~red strikeout~~ relate to the changes for IN009/19W.

Appendix A

Data Dictionary - aseXML Data Elements

aseXML Element Name	Element Name	Description	Attributes /Format	Length/ Decimal Places	Allowed Values
MeterReadFrequency	Meter Read Frequency	Frequency on which the meter is read	String	Enum	"Bi Monthly" "Monthly" "Quarterly"
MeterSerialNumber	Gas Meter Number	Number located on the gas meter.	String	12	
MeterStatus	Meter Status	Field that confirms if a disconnection has taken place. Meter Disconnection by User notification to Network Operator. <u>For WA Field that defines the status of the meter, effectively Turned ON or describes method of disconnection.</u>	String	Enum	"Turned on" "Turned off" "Plugged" "No meter" Not used in WA Market <u>"Trailer AC" – This is not used in SA</u> <u>"No Req" – This is not used in SA</u>
MeterTypeSizeCode	Meter Type Size Code	Identifies type of meter	String	3	In WA: Digit 1 = Meter Type 'B' or 'I' Digit 2 = Index Type 'M' or 'I' Digit 3 = Number of Dials (1 to 7) In SA: Network Operator defined.

CSV Data Elements

Meter_Position	Meter Position		String	40	
Meter_Read_Frequency	Meter Read Frequency	In the Annual Meter Reading Schedule indicates how frequently the meter is read	String	1	"B" = Bi-Monthly "M" = Monthly "Q" = Quarterly
Meter_Status	Meter Status	Field that confirms if a disconnection has taken place. Meter Disconnection by User notification to Network Operator. <u>For WA Field that defines the status of the meter, effectively Turned ON or describes method of disconnection.</u>	String	10	"Turned on" "Turned off" "Plugged" = Meter is disconnected "No meter" If this Meter_Status is mandatory in a transaction, then it will always be "Turned On" in WA as meters status has no meaning in WA. <u>"Trailer AC" – This is not used in SA</u> <u>"No Req" – This is not used in SA</u>

PART B - B2B SERVICE ORDER SPECIFICATIONS - PART 2

Draft version of the B2B Service Order Specification – Part 2 showing tracked changes between the current version and the proposed changes are attached separately to this document.

Note 1: changes for IN010/20W are shown in green underline. These are additions.

Note 2: the marked chances shown in Blue underline and ~~red strikeout~~ relate to the changes for IN009/19W



PART C – SPECIFICATION PACK USAGE GUIDE

Draft version of the Specification Pack Usage Guide showing tracked changes between the current version and the proposed changes are attached separately to this document.

The marked changes shown in Blue underline means additions and ~~red strikeout~~ means delete.



ATTACHMENT D – WORKSHOP SLIDES

The workshop slides from the 30 July 2020 workshop have been attached separately to this document



ATTACHMENT E – GENERAL FEEDBACK GIVEN TO PPC

Section 1A - General Comments on the Proposed Procedure Change - Network Operator to provide meter status information in 4 existing transactions (IN009/19W).

Topic	Ref #	Company	Response	AEMO (AEMO only)	Response
<p>Sections 1 to 8 of the PPC sets out details of the proposal.</p> <p>Does your organisation supports AEMO’s assessment of the proposal?</p> <p>If no, please specify areas in which your organisation disputes AEMO’s assessment (include PPC section reference number) of the proposal and include information that supports your organisation’s rationale for not supporting AEMO’s assessment.</p>	1	AGL	AGL supports the review undertaken by AEMO.	AEMO notes AGL’s support for the changes.	
	2	Alinta Energy	<p>Alinta Energy supports the proposed changes set out in the PPC to include the Meter Status field in the following network operator transactions:</p> <ul style="list-style-type: none"> • NMIDiscoveryResponse • NMISstandingDataResponse • MeterDataNotification / CSVConsumptionData • CSVHistoryResponseData 	AEMO notes Alinta Energy’s general support for the proposal.	
	3	ATCO Gas	<p>ATCO supports AEMO’s assessment of the proposed procedure change. In WA ATCO already advises the meter status information in the consumption data transactions, we support the inclusion of statuses in the MIRN Discovery transactions to assist with the customer transfer process.</p> <p>As this proposal is linked with the introduction of two new meter statuses (IN010/20W) and new JECs (IN002/15W) ATCO considers there would likely be net benefits from this proposal</p>	<p>AEMO notes ATCO Gas’s support of AEMO’s assessment of the proposed procedure change.</p> <p>In relation to ATCO advice that the meter status information is already supplied in the consumption data transaction, AEMO notes this advice. Specification Pack document stills needs to be amended for this transaction to remove the reference</p>	



			should it proceed as part of a consolidated program of works (which include CDN/CDR initiatives for WA).	about the meter status will always be “Turned-on”. AEMO notes ATCO advice on the likelihood of a net benefit if this proposal is consolidated in single release with other proposed WA changes.
	4	Origin Energy	Origin agrees with AEMO’s assessment of this initiative	AEMO notes Origins agreement with AEMO’s assessment of this initiative
	5	Simply Energy	Simply Energy supports the proposal for WA Network Operator (ATCO) to provide the status of the gas meters capability to flow gas (e.g. meter status) in the transactions mentioned below, and in the same format as described in the east-coast Participant Build Packs: -NMIDiscoveryResponse -NMISstandingDataResponse -MeterDataNotification / CSVconsumptionData CSVHistoryResponseData	AEMO notes Simply Energy’s support for the proposal.
	6	Synergy	Synergy notes AEMO has deemed the proposed change to be material because of the extent and complexity of changes to IT systems and the industry coordination effort required to uplift the aseXML schema in WA to a schema version beyond r38.	AEMO notes that Synergy supports a for the least cost and disruption approach and the implementation should be done concurrently with the other program of proposed works.



			<p>Synergy agrees, with AEMO, the magnitude of the materiality will likely increase further if the implementation does not leverage the other program of proposed works such as :</p> <p>IN003/20 (Gas Life Support, East coast) IN011/20 (CDN and CDR, East coast) IN003/20W (CDN and CDR, WA) IN002/15W (New Job Enquiry Codes, WA)</p> <p>Further, Synergy, understands AEMO is yet to obtain estimated costs for AEMO to implement this change. However, AEMO expects that the benefits in aggregate will outweigh the costs. Therefore, given these factors Synergy supports a least cost and disruption approach and considers the implementation should be done concurrently with the other program of proposed works</p>	
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Section 1B General Comments on the Proposed Procedure Change - **Add two new meter statuses to the existing enumeration list (IN010/20W)**

Topic	Ref #	Company	Response	AEMO (AEMO only)	Response
Sections 1 to 8 of the PPC sets out details of the proposal.	7	AGL	AGL supports AEMOs assessment of the issue. The provision of a clear MIRN Status/Meter Status will support efficient actions on behalf of the retailer and remove the need for manual communications between parties, which will	AEMO notes AGL's support for the changes.	



<p>Does your organisation supports AEMO’s assessment of the proposal?</p> <p>If no, please specify areas in which your organisation disputes AEMO’s assessment (include PPC section reference number) of the proposal and include information that supports your organisation’s rationale for not supporting AEMO’s assessment.</p>			allow for effective and timely customer communication processes.	
	8	Alinta Energy	Alinta Energy supports adding two additional codes to the Meter Status field: <ul style="list-style-type: none"> • Trailer AC (Trailer Air Coupling device installed) • No Reg (Regulator removed from meter) 	AEMO notes Alinta Energy’s general support for the proposal.
	9	ATCO Gas	ATCO supports AEMO’s assessment of the proposal to add new meter statuses required as the result of IN002/15W initiative.	AEMO notes ATCO Gas’s support for the proposal.
	10	Origin Energy	Origin agrees with AEMO’s assessment of this initiative.	AEMO notes Origins agreement with AEMO’s assessment of this initiative
	11	Simply Energy	Simply Energy agrees with the inclusion of following new meter status codes be added to the enumerated list, as “allowable” meter status values in the WA gas retail market to resolve the mapping alignment, with marked - up suggestions (in red text) <ul style="list-style-type: none"> - Trailer AC - No Regulator <p>As a general feedback, consistent with our earlier position, Simply Energy does not consider any material benefit would be realised on implementing IN009/19W and IN010/20W changes in isolation however unsure why AEMO has mentioned in Section 6 that “the magnitude of the materiality would increase if the implementation does not</p>	<p>AEMO notes Simply Energy’s agreement to include the new meter status codes. AEMO does not support suggestion to change “No Reg” to “No Regulator” for the reason described in ref #13.</p> <p>AEMO also notes Simply Energy comment about this change does not realise any material benefit if the implementation is done in isolation, however based on the feedback that has been provided by participants, AEMO assessment is the benefits in aggregate will outweigh the cost if bundled with other changes namely IN003/20W (WA CDN and CDR) and IN002/15W (Add new Job Enquiry Codes).</p>



			leverage the program of works for the existing schema change initiatives, namely IN003/20 (Gas Life Support) and IN011/20 (CDN and CDR) for east-coast jurisdictions as well as potentially IN003/20W (WA CDN and CDR) and IN002/15W (Add new Job Enquiry Codes) for WA.” which is contrary to Section 4 of the PPC.	
	12	Synergy	See above.	See above

Section 2 - Feedback on the documentation changes.

FRC B2B System Interface Definitions (See Attachment B and C in PPC)					
Ref #	Comp	Part # Section #	Issue / Comment	Proposed text Red-strikeout means delete and <u>blue underline</u> means insert	AEMO Response (AEMO only)
13	Simply Energy		Marked-up suggestion for the descriptions	<ul style="list-style-type: none"> - Trailer AC - No Regulator 	The current CVS element for Meter Status has the length of the field set at 10 characters and the text "No Regulator" is 12 characters. Increasing the field size to 12 will require additional IT changes and costs therefore AEMO does not support this suggestion.
Ref #1 – B2B Service Order Specifications – Part 2					
		Row # and Column #	Issue / Comment	Proposed text Red-strikeout means delete and <u>blue underline</u> means insert	AEMO Response (AEMO only)
14	Alinta	Row 47 Column P	Missing information for MRM enquiry code	<p>MIRN Status = Decommissioned, Meter Status = 'No Reg' Meter regulator is physically removed from premises</p>	AEMO support Alinta comment that is text is missing and has updated the documentation accordingly.
15	ATCO	Row 66 Column P Ref 1 - B2B Service Order Specifications - Part 2 (v3.TBA) -	Suggested amendment for clarity on MIRN deregistration. SDR in WA can occur in two instances, both of which will remove the MIRN from the market.	<p>If service and meter is removed, then MIRN Status = Deregistered <u>If meter and service is removed, then MIRN status = Deregistered</u></p>	AEMO supports ATCO suggested change has updated the documentation accordingly



		marked up - IN010-20W			
Ref #2 – AEMO Specification Pack- Specification Pack Usage Guidelines					
		Section #	Issue / Comment	Proposed text Red strik means delete and <u>blue underline</u> means insert	AEMO Response (AEMO only)