

BB DATA SUBMISSION GUIDE VERSION 1.0

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Important notice

PURPOSE

This BB Data Submission Guide sets our specific data elements for submitting information to AEMO for the Natural Gas Services Bulletin Board and validation rules. The Rules, the National Gas Law and the BB Procedures prevail over this BB Data Submission Guide to the extent of any inconsistency.

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VERSION CONTROL

Version	Release date	Changes
1.0	XX XXX XXXX	Replaces BB Data Submission Procedures. Updated to include changes to existing and new reports resulting from the National Gas Amendment (Market Transparency) Rule 2022

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1. Overview

1.1 Purpose

This BB Data Submission Guide sets out the specific data elements for the following information to be submitted to AEMO for the Natural Gas Services Bulletin Board as required by the *BB Procedures*:

- *BB reporting entities* to submit forecast and actual data and information on curtailed quantities of auction services; and
- capacity sellers or their agents to submit capacity transaction information.
- gas sellers or their agents to submit gas or LNG transaction information.

If there is any inconsistency between this BB Data Submission Guide and the *BB Procedures*, the *BB Procedures* prevails.

In relation to *BB compression facilities*:

- this BB Data Submission Guide specifies the data elements for registered *transportation service providers* for *BB compression facilities* to submit forecast and actual data to AEMO for the Natural Gas Services Bulletin Board;
- this BB Data Submission Guide should be read in conjunction with section 25 of the *Capacity Transfer and Auction Procedures*; and
- if there is any inconsistency between this BB Data Submission Guide and the *Capacity Transfer and Auction Procedures*, the *Capacity Transfer and Auction Procedures* prevail.

1.2 Application

This BB Data Submission Guide sets out the specific data elements and validation rules for information to be provided pursuant to the National Gas Law, Rules and *BB Procedures*.

Whilst this BB Data Submission Guide includes a summary of the requirements for submission of information under the *BB Procedures*, this BB Data Submission Guide does not form part of the *BB Procedures*, and is intended to be a more technical document for the specific data elements and validation rules that will apply to information provided for the Bulletin Board.

This BB Data Submission Guide also applies to the *transportation service provider* for a *BB compression facility* registered with AEMO under the *Capacity Transfer and Auction Procedures* in accordance with section 91BRR of the Law.

1.3 Terminology and Definitions

The words, phrases and abbreviations set out below have the meanings set out opposite them when used in this BB Data Submission Guide. Terms defined in the National Gas Law, the Rules or *BB Procedures* have the same meanings in this BB Data Submission Guide unless otherwise specified in this clause. Those terms are intended to be identified in this BB Data Submission Guide by italicising them, but failure to italicise a defined term does not affect its meaning.

1.3.1 Abbreviations

Abbreviation	Meaning
AEMO	Australian Energy Market Operator.

Abbreviation	Meaning
API	Application Programming Interface.
BB	The Natural Gas Services Bulletin Board.
CSV	Comma Separated Values. Stores tabular data (numbers and text) in plain-text form. Plain text means the content is a sequence of characters, with no data that has to be interpreted instead, as binary numbers.
FTP	File Transfer Protocol – a protocol that allows users to copy files between any systems they can reach on the network.
HTTPS	Hypertext Transfer Protocol over SSL.
JSON	JavaScript Object Notation.
RESTful	Representational State Transfer.
URL	Uniform Resource Locator.

1.3.2 Terms

Term	Meaning
Authorised User	A person authorised by a <i>BB reporting entity</i> to submit information to the Bulletin Board for that <i>BB reporting entity</i> .
Connection Point	A <i>receipt point</i> or <i>delivery point</i> or, in relation to a <i>BB compression facility</i> , a <i>compression delivery point</i> or <i>compression receipt point</i> .
BB Procedures	The BB Procedures made under Part 18 of the National Gas Rules,.
Declared Transmission System	The Declared Transmission System (DTS), also known as the Victorian Transmission System (VTS), transports natural gas within Victoria, supplying the Melbourne metropolitan area and country areas.
e-Hub	API Web Portal and the API Gateway for both electricity and gas.
Rules	The National Gas Rules.
Rollover	Indicates where the Rules allow for the use of default values.

1.4 Interpretation of these Procedures

The following principles of interpretation apply to this BB Data Submission Guide unless otherwise expressly indicated:

- (a) This BB Data Submission Guide are subject to the principles of interpretation set out in Schedule 2 of the National Gas Law.
- (b) References to time are references to Australian Eastern Standard Time.
- (c) References to rules or sub-rules are to the relevant provision in the Rules.
- (d) A reference to a change in capacity or quantity includes an increase or decrease.

2. Technical Overview

This BB Data Submission Guide is divided into two key areas:

- Data transfer formats which includes the data elements and validation rules.
- Data transfer mechanisms to submit data to the BB, and how the success and failure of those submissions is communicated back to the submitter.

There are several methods available to submit data to the BB:

- BB website file upload: CSV file upload using the BB website upload page.
- RESTful web services: HTTP POST request using a RESTful interface.
- Participants who have been approved for the simplified registration process in accordance with the *BB Procedures* can submit via email to AEMO (bbo.@aemo.com.au)

Any of the above-mentioned methods may be used depending on the IT systems and requirements of the *BB reporting entity*, except for submission via email which is available only to participants that have been approved for the simplified registration process in accordance with the *BB Procedures*.

All *BB reporting entities* submitting data to the BB must be registered in accordance with the Rules to be given access credentials to the BB.

Refer to Appendix A2 for how to submit transaction data in a RESTful style by a HTTPS POST request to Bulletin Board submission URLs.

3. Data Provision Requirements

The requirements for submitting information to AEMO for the Bulletin Board are specified in the National Gas Rules and the *BB Procedures*.

This BB Data Submission Guide includes a summary of the requirements of the Rules and the *BB Procedures* and sets out the specific data elements for the information to be provided for the Bulletin Board as required by the Rules and the *BB Procedures*.

Table 1 summarises the transaction data responsibilities of all parties as required by the Rules and the *BB Procedures* and is explained in more detail in section 4.

Table 1 Transaction data responsibilities

Transaction	Description	Reporting frequency	Submission cut-off times	Production facility	Storage facility	Pipeline	Compression facility	Auction facility operators	Capacity seller	Gas seller	Large user facility	LNG export facility	LNG import facility	Field Owner	Facility Developer
				BB reporting entity obligation under the Rules to provide data to AEMO											
Short Term Capacity Outlook	Provides on each gas day D-1, the daily capacity of the <i>BB facility</i> for gas days D to D+6.	Daily	7.00 pm on gas day D-1.	●	●	●	●					●	●		
Daily Production and Flow	Provides on each gas day D+1 for gas day D, the daily gas flow, production or consumption data	Daily	1.00 pm on gas day D+1.	●	●	●	●				●	●	●		
Daily Storage	Provides on each gas day D+1 at the end of gas day D, the actual quantity of natural gas held in each storage.	Daily	1.00 pm on gas day D.		●								●		
Connection Point	Provides the nameplate rating	Annually	31 March annually and whenever			●	●								

Transaction	Description	Reporting frequency	Submission cut-off times	Production facility	Storage facility	Pipeline	Compression facility	Auction facility operators	Capacity seller	Gas seller	Large user facility	LNG export facility	LNG import facility	Field Owner	Facility Developer
				BB reporting entity obligation under the Rules to provide data to AEMO											
Nameplate Rating	for each connection point.		the standing capacity changes.												
Linepack Capacity Adequacy	Provides on each gas day D-1 for gas days D to D+2, the Linepack Capacity Adequacy (LCA) flag	Daily	7.00 pm on gas day D-1.			●	●								
Medium Term Capacity Outlook	Provides details of capacity outlooks for BB facilities in the next 12 months.	Ad hoc	Not applicable	●	●	●	●					●	●		
Nameplate Rating	Provides the nameplate rating of each BB facility or information about any planned permanent capacity reduction.	Annually	31 March annually and whenever the standing capacity changes.	●	●	●	●				●	●	●		
Nomination and Forecasts	Provides on each gas day D-1 the nominations and forecasts for gas days D to D+6 ¹ .	Daily	9.00 pm on gas day D-1.	●	●	●	●						●		
Uncontracted Capacity Outlook	Provides the uncontracted primary capacity for	Monthly	7.00 pm on the last gas day of each month.	●	●	●	●						●		

¹ For BB pipelines forming part of a Declared Transmission System, provides on each gas day D, the aggregated scheduled injections and withdrawals at each controllable system point for gas days D+1 and D+2.

Transaction	Description	Reporting frequency	Submission cut-off times	Production facility	Storage facility	Pipeline	Compression facility	Auction facility operators	Capacity seller	Gas seller	Large user facility	LNG export facility	LNG import facility	Field Owner	Facility Developer
				BB reporting entity obligation under the Rules to provide data to AEMO											
	the next 36 months ² .														
BB Capacity Transaction	Provides information on <i>BB capacity transactions</i>	Ad hoc	Within one business day of the trade date						●						
Auction curtailment notice	Provides a notice if an auction service is subject to curtailment in respect of a gas day.	Ad hoc	As soon as practicable on the gas day					●							
Daily auction service curtailment notice	Provides information about the amount of curtailed quantity of an auction service for each BB Auction Facility.	Daily	As per the Capacity Transfer and Auction Procedures					●							
Shipper list	Provides information about <i>BB shippers</i> with primary capacity	Ad hoc	On registration and changes.		●	●	●								
Short term transaction										●					
Storage capacity transaction															
LNG Transaction															

² This does not include *BB pipelines* in the Declared Transmission System.

Transaction	Description	Reporting frequency	Submission cut-off times	Production facility	Storage facility	Pipeline	Compression facility	Auction facility operators	Capacity seller	Gas seller	Large user facility	LNG export facility	LNG import facility	Field Owner	Facility Developer
				<i>BB reporting entity obligation under the Rules to provide data to AEMO</i>											
LNG Shipment												●	●		
Gas field interest detail															
Gas field Interest														●	
Facility Development															●

3.1 Facility and Connection Point Identifiers

This section describes the naming conventions for Facility Identifiers, Facility Development Identifiers, Field Interest Identifiers and Connection Point Identifiers.

3.1.1 Identifiers for Facilities, Facility Developments, and Field Interests

Identifiers for facilities (FacilityId), field interests (FieldInterestId) and facility developments (DevFacilityId) used in transactions and reports subscribe to the following format:

```
5[2-8]((?!0000)[0-9]{4})
```

Item	Description	Values
1	Energy type identifier	5 Gas
2	State code of element	2 NSW and ACT 3 Victoria 4 Queensland 5 South Australia 6 Western Australia 7 Tasmania 8 Northern Territory
3	State based unique identifying number	1 to 9999

Facility, field interest and facility development Identifiers have the following characteristics:

- Identifiers (FacilityIds, DevFacilityIds and FieldInterestIds) are defined and allocated by AEMO to *BB reporting entities* during the registration process.
- A *BB reporting entity* may report on multiple Identifiers.

For example, Identifier "520345" relates to an element (*BB reporting entity*) within NSW and ACT with a unique identifier of "0345" which is related to the gas industry.

3.1.2 Connection Point Identifiers

Connection Point Identifiers (ConnectionPointId) used in transactions and reports subscribe to the following format:

```
1[2-8]((?!00000)[0-9]{5})
```

Item	Description	Values
1	Connection point identifier	1
2	State code of element	2 NSW and ACT 3 Victoria 4 Queensland 5 South Australia 7 Tasmania 8 Northern Territory
3	State based unique identifying number	1 to 99999

Connection Point Ids have the following characteristics:

- ConnectionPointIds are defined and allocated by AEMO to *BB reporting entities* during the registration process.
- Individual Connection Point Ids will be assigned to support each injected or withdrawn gas flow from *BB pipelines* and *BB compression facilities*.
- Individual Connection Point Ids may be assigned to *BB Production* and *BB Storage facilities* to support each injected or withdrawn gas flow, noting that these Connection Point Ids are not used in the submission process.
- *BB reporting entities* must report flows into their respective *BB pipelines* as receipts, and flows out of their respective *BB pipelines* as deliveries, for each Connection Point Id.
- The state code element for a Connection Point Id corresponds to its physical location. In the case of *BB pipelines* that traverse multiple states, state codes for Connection Point Ids along the line can differ from that of other Connection Point Id and the pipeline's Facility Id.
- The 00001-99999 unique identifying number of a Connection Point Id to be unique for each state. Thus two Connection Point Ids in different states can have the same identifying number.

For example:

- Connection Point Id "1301000" relates to a connection point within Victoria with the state based unique numeric identifier of "1000".
- Connection Point Id "1401000" relates to a connection point within Queensland with the state based unique numeric identifier of "1000".

4. Transaction Data Responsibilities and Submission Formats

This section provides details on the data elements for gas transactions.

4.1 Short Term Capacity Outlook

Transaction name	SHORT_TERM_CAPACITY_OUTLOOK
Purpose	Provide on each gas day D-1 the <i>BB reporting entity's</i> good faith estimate of the daily capacity of the BB facility for gas days D to D+6.
Submission cut-off time	7:00 pm on gas day D-1
Rollover	Submitted values roll forward in the following manner: The short term capacity outlook data is deemed to be unchanged for each of the gas days specified in the most recent submission; and For subsequent gas days the short term capacity outlook data is deemed to be the same as the data for the last gas day included in the most recent short term capacity outlook submission.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, BB storage facilities, BB compression facilities, LNG export facilities and LNG import facilities.</i>
Exemptions	No exemptions will be given for this submission.
Notes	Submissions are made on gas day D-1 for gas days D to D+6 and can be updated on gas day D (for that gas day D). Further submissions beyond D+6 may also be made. In the case there is a material change the value must be updated.

4.1.1 Data elements

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Capacity Type	CapacityType	Capacity type may be: Storage: Holding capacity in storage for a <i>BB Storage</i> or <i>LNG Import</i> facility, or MDQ: Daily maximum firm capacity under the expected operating conditions.	Yes	varchar(20)	STORAGE;MDQ
Outlook Quantity	OutlookQuantity	Capacity Outlook quantity in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	Indicates whether the capacity is for a <i>BB storage, LNG export, or LNG import facility's</i> capacity for injecting,	Conditional This field is mandatory for	varchar(20)	RECEIPT; DELIVERY; PROCESSED;

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		<p>withdrawing, LNG processing or LNG import storage. Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB storage or LNG export facility</i> Delivery: The flow of gas <u>out</u> of the <i>BB storage or LNG import facility</i>. Processed: Flow direction type used by <i>LNG Export</i> and <i>LNG Import</i> facilities. For <i>LNG export</i>, it represents the amount of gas that can be processed to a liquefied state on a gas day. For <i>LNG import</i>, it represents the amount of gas that can be received and processed into storage on a gas day. DeliveryLNGstor: Flow direction type used by <i>LNG import</i> facility. It represents the amount of gas that can be withdrawn from storage for processing to a gaseous state on a gas day.</p>	<p><i>BB storage, LNG Export and LNG Import facilities</i> with MDQ Capacity Type value. Otherwise leave this blank.</p>		<p>DELIVERYLNGST OR</p>
Capacity Description	CapacityDescription	<p>Free text to describe the meaning of the capacity, which could include a description of material factors that impact the capacity number and any other relevant information. For <i>BB pipelines</i> this could be clarifying the relevance of the receipt and delivery locations and the flow direction of the capacity. For <i>BB compression facilities</i> this could be a description of a set of values describing the maximum daily capacity of the facility under a corresponding set of expected standard operating conditions.</p>	<p>Conditional This information is mandatory for <i>BB pipelines</i> and <i>BB compression facilities</i>. Otherwise leave this blank.</p>	<p>varchar(1000)</p>	<p>Longford to Horsley Park via EGP</p>
Receipt Location	ReceiptLocation	<p>The Connection Point Id that best represents the receipt location. In conjunction with the Delivery location, this will indicate direction and location of the capacity.</p>	<p>Conditional This information is mandatory for <i>BB pipelines</i>. Otherwise leave this blank.</p>	<p>Bigint</p>	<p>1200001</p>
Delivery Location	DeliveryLocation	<p>The Connection Point Id that best represents the delivery location. In conjunction with the receipt location, this will indicate direction and location of the capacity.</p>	<p>Conditional This information is mandatory for <i>BB pipelines</i>. Otherwise leave this blank.</p>	<p>Bigint</p>	<p>1300056</p>
Description	Description	<p>Describe the reasons or provide comments directly related to the quantity and the times, dates, or duration for which those changes in quantities are expected to apply. This would be the 'outage type' and include the equipment involved. Include information on</p>	<p>Yes</p>	<p>varchar(1000)</p>	<p>EGP from Longford to Horsley Park, compressor outage. 2 week outage.</p>

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		describing the location of transport routes affected.			
Active Flag	ActiveFlag	Indicates whether the submission is active or not	No	Bit	1,0

Refer Appendix A3 for Data submission examples.

4.1.2 Requirements

- Outlook Quantity values must be submitted in TJs accurate to three decimal places.
- *BB reporting entity* must update the information it has provided for a gas day if there is a material change and must do so as soon as practicable
- *BB facilities*, excluding *BB large user facilities*, must submit *short term capacity outlooks* for each corresponding *nameplate rating* for that facility.
- For complex *BB pipelines* that involve more than two directions of flow, or multiple segments with different *nameplate ratings*, more than two capacity quantities may be required.
- *BB storage facilities* are required to report capacity for receipts into, and deliveries from, the *BB storage facility* as well as the quantity of natural gas that can be held in storage.
- *BB compression facilities* are required to report the expected daily capacity of the facility
- *BB Production facilities* are required to report the daily capacity of the facility
- *LNG export facilities* are required to report the amount of gas that can be processed to a liquefied state on a gas day as well as the amount of gas that can be received from a *BB pipeline*.
- *LNG import facilities* are required to report the amount of gas that can be received and processed into storage on a gas day; the amount of gas that can be delivered into one or more *BB pipelines*; the amount of gas that can be withdrawn from storage for processing to a gaseous state on a gas day and the amount of gas that can be held in storage at the *LNG import facility*.
 - *BB pipelines* are required to submit a Capacity Description and the Receipt and Delivery Points as per the *nameplate rating*.
 - *BB compression facilities* are required to submit a Capacity Description, including expected inlet and outlet pressures.
 - Where a facility's capacity is reduced to zero, a zero value must be submitted.
 - Submissions must only contain *BB pipelines*, *BB production facilities*, *BB storage facilities*, *BB compression facilities*, *LNG Export facilities* or *LNG Import facilities* for which the *BB reporting entity* is registered.

4.1.3 Validation rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain FacilityIds registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Outlook Quantity.
- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.

- Users will be able to submit short term capacity outlook data for any future gas day or up to 7 gas days in the past. Submissions can potentially be made further than 7 days in the past – users must contact the BB Operator in order to do this (bbo@aemo.com.au).
- FlowDirection is case sensitive
- ActiveFlag of 1 represents that submission is active and ActiveFlag of 0 represents that submission is inactive
- If active flag is not submitted, a value of ActiveFlag = 1 is assumed. To make a Short Term Capacity Outlook inactive, ActiveFlag = 0 must be included in the submission

4.2 Daily Production Flow

Transaction name	DAILY_PRODUCTION_AND_FLOW
Purpose	Provide on each gas day D+1, the <i>BB reporting entities</i> daily gas flow data for receipts and deliveries and <i>BB compression facility</i> operator's daily gas compression for gas day D.
Submission cut-off time	1:00 pm on gas day D.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> , <i>BB production facilities</i> , <i>BB storage facilities</i> , <i>BB Compression facilities</i> , <i>Large Users</i> , <i>LNG Export facilities</i> , and <i>LNG Import facilities</i> .
Exemptions	Two facilities connected to a single connection point may both be registered by AEMO. If one of these facilities is exempt from reporting flows for the connection point, submissions from that Facility Id in respect of the shared connection point are not mandatory.
Notes	Re-submissions and amendments on the initial submission are permitted. AEMO always publish the latest actual flow submission. However, a timeline of historic submissions may be reportable.

4.2.1 Data elements and fields

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	Datetime	2018-09-23
Actual Quantity	ActualQuantity	The actual quantity of gas that flowed into a <i>BB facility</i> or out of a <i>BB facility</i> , or The actual quantity of gas compressed by the <i>BB compression facility</i> . The actual quantity of gas processed into an <i>LNG Import facility</i> The actual quantity of gas that can be withdrawn from an <i>LNG Import facility</i> for processing	Conditional This field is mandatory where Quality value is "OK"	number(18,3)	32.232 25.2 (if Actual Quantity is 25.200)
Connection Point Id	ConnectionPointId	A unique AEMO defined connection point identifier.	Conditional	Int	1201001

Data	Data Field Name	Description	Mandatory	Data Type	Example/ Allowed Values
Flow Direction	FlowDirection	Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB facility</i> , or Delivery: The flow of gas <u>out</u> of the <i>BB facility</i> . Compressed: The action performed by the <i>BB compression facility</i> Processed: The amount of gas processed into storage on a day DeliveryLngStor: The amount of gas that can be withdrawn from storage for processing on a gas day	Yes	varchar(20)	RECEIPT; DELIVERY; COMPRESSED PROCESSED DELIVERYLINGSTOR
Qualities	Quality	Indicates whether data for the gas date is available. Quality can be: OK: Connection Point Actual Quantity data for gas flow into or out of the <i>BB facility</i> is based on meter data or as agreed with AEMO. Nil: Connection Point Actual Quantity data for gas flow into or out of the <i>BB facility</i> cannot be determined due to an operational issue.	Yes	varchar(5)	OK; NIL

4.2.2 Requirements

- Actual Quantity values represent physical gas flows and must be submitted in TJs accurate to three decimal places.
- Where there are zero gas flows at a connection point, an Actual Quantity of zero must be submitted with a flow direction corresponding to the standing data flow direction of that connection point.
- A *BB pipeline* must provide gas flow for each connection point during a gas day.
- Where a *BB storage* has flows in both directions during a gas day, an aggregated Actual Quantity and Flow Direction must be submitted for the facility.
- A *BB compression facility* must provide the quantity of gas compressed by the facility during the gas day.

- A *BB Production facility* must provide the quantity of gas injected into one or more pipelines on the gas day
- A *BB LNG Import facility* must provide; the quantity of LNG received and processed into storage on a gas day; the quantity of LNG withdrawn from storage for processing to a gaseous state on a gas day; and the quantity of natural gas (in a gaseous state) injected into one or more pipelines from the *LNG import facility* on a gas day. A *LNG Export facility* must provide the quantity of gas consumed on the gas day
- A *BB Large User facility* must provide the quantity of gas consumed on the gas day
- Data only to be submitted by connection point for *BB pipelines*. All other submissions are at facility level.
- Where no available data exists for a connection point during the submission period due to an operational issue then a NULL Actual Quantity with a flow direction corresponding to the standing data flow direction of that connection point should be submitted and Quality of NIL. Alternatively, an estimate of the Actual Quantity can be provided.
- Where there are zero gas flows at a connection point, an Actual Quantity of zero must be submitted with a flow direction corresponding to the standing data flow direction of that connection point.
- For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the Detailed Information Facility in the BB.
- A *BB compression facility* Actual Quantity must be provided as a compressed value.
- Submitted connection points must be registered against the Facility Id of the *BB pipeline* during the connection point registration process.
- Submissions must only contain *BB pipelines, BB production facilities, BB storage facilities, BB compression facilities, BB large user facilities, LNG import facilities and LNG export facilities* for which the *BB reporting entity* is registered.
- Where operational metering is not installed, the information to be provided to AEMO under this subdivision is to be determined by the *BB reporting entity* on a basis agreed by the *BB reporting entity* with AEMO

Data Submission examples are listed in Appendix A3.

4.2.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the *BB reporting entity*.
- Connection Point Ids must only be submitted for *BB Pipelines* and must be registered against the Facility Id.
- Actual Quantity values must represent physical gas flows or compressed gas.
- Negative Actual Quantity values are not accepted.
- Connection point Actual Quantity must be provided as a receipt or delivery value.

-
- Connection point Actual Quantity is validated against the connection point nameplate rating.
- Facility Actual Quantity is validated against the most recent Short Term Capacity Outlook for that facility and gas date. Large Users Actual Quantity is validated against the most recent Nameplate Rating for that facility and gas date.
- For storage the validations will be against the MDQ Short Term Capacity Outlook capacity for Receipt and Delivery
- The validation on Actual Flow is as follows:
 1. If the Actual Flow quantity is less than or equal to 5 TJ then the information will be accepted, otherwise
 - A soft warning will appear for submitting an Actual Flow quantity that is higher than the capacity
 - Another soft warning will appear for submitting an Actual Flow quantity that is higher than the capacity multiplied by 1.3
 - The submission will be rejected if the Actual Flow quantity is two times higher than the capacity (noting that it is possible to retrospectively update the short term capacity outlook if required)

4.3 Daily Storage

Transaction name	DAILY_STORAGE
Purpose	Provide on each gas day D+1, the actual quantity of natural gas held in each <i>BB storage facility</i> and <i>LNG import facility</i> for gas day D and any cushion gas quantity for <i>BB storage facilities</i> .
Submission cut-off time	1:00 pm on gas day D.
Rollover	No Rollover.
Required by	The <i>BB reporting entity</i> for <i>BB storage and LNG Import facilities</i> .
Exemptions	No exemptions are given for this submission.

4.3.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Actual Quantity	ActualQuantity	The actual quantity of gas held in a <i>BB storage facility</i> or <i>LNG import facility</i> . This volume of gas should exclude any cushion gas.	Yes	number(18,3)	32.232 25.2 (if Actual Quantity is 25.200)
Cushion Gas Quantity	CushionGasQuantity	The quantity of cushion gas held in a <i>BB Storage facility</i>	Conditional This information is	number(18,3)	32.232 25.2 (if Cushion Gas is 25.200)

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
			mandatory for <i>BB Storage facilities</i> .		

Data Submission examples are listed in Appendix A3.

4.3.2 Requirements

- Actual Quantity and Cushion Gas Quantity must both be submitted in TJs accurate to three decimal places.
- Submissions must only contain *BB storage or LNG Import facilities* for which the *BB reporting entity* is registered.

4.3.3 Validation rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative Actual Quantity values are not accepted.
- NegativeCushion Gas Quantity values are not accepted.
- CushionGasQuantity validates against Storage Nameplate Rating ie: CushionGasQuantity must be less than or equal to facility Nameplate rating where CapacityType equals Storage

4.4 Connection Point Nameplate Rating

Transaction name	CP_NAMEPLATE_RATING
Purpose	<p>Provide nameplate ratings:</p> <p>For each <i>gate station connection point</i> owned, controlled, or operated by the <i>BB pipeline</i> operator and connected to each of its <i>BB pipelines</i>.</p> <p>For each <i>gate station connection point</i> connected to each of its <i>BB pipelines</i> which is not owned, controlled, or operated by the <i>BB pipeline</i> operator where the connection point nameplate rating has been provided to the <i>BB pipeline</i> operator by the facility who owns, controls, or operates the <i>connection point</i>.</p> <p>For each connection point on a <i>BB pipeline</i> or a <i>BB compression facility</i>.</p>
Submission frequency	Annually
Submission cut-off time	31 March annually and whenever the standing capacity changes.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> and <i>BB compression facilities</i>
Exemptions	No exemptions are given for this submission.

4.4.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example/ Allowed values
Connection Point Id	ConnectionPointId	A unique AEMO defined connection point identifier.	Yes	int	1201001
Capacity Quantity	CapacityQuantity	Standing capacity quantity.	Yes	number(18,3)	32.232 25.2 (if the value is 25.200)
Effective Date	EffectiveDate	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the capacity quantity or the change in quantity provided in relation to a <i>BB facility</i> and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	No	varchar(255)	EGP from Longford to Horsley Park, compressor outage. 2 week outage.

Data Submission examples are listed in Appendix A3.

4.4.2 Requirements

- Capacity Quantity values must be submitted in TJs accurate to three decimal places.
- Submitted connection points must be registered against the Facility Id during the connection point registration process.

4.4.3 Validation rules

- Effective Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Connection Point Ids connected to a *BB pipeline* or *BB compression facility* registered to the CompanyId.
- A Capacity Quantity value of zero must be submitted if there is no ability to flow gas.
- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.

4.5 Linepack Capacity Adequacy

Transaction name	LINEPACK_CAPACITY_ADEQUACY
Purpose	Provide on any gas day D, the <i>BB pipeline</i> and <i>BB compression facility</i> operator's Linepack Capacity Adequacy (LCA) flag for gas days D to D+2.
Submission cut-off time	7:00 pm on gas day D.
Rollover	Submitted values roll forward in the following manner: The last 3-day LCA Outlook provided for that <i>BB pipeline</i> or <i>BB compression facility</i> is deemed to be unchanged. The <i>LCA flag</i> for the subsequent gas day is deemed to be the same as the <i>LCA flag</i> for D+2.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> and <i>BB compression facilities</i> .
Exemptions	No exemptions are given for this submission.
Notes	Submissions made on gas day D can contain values for gas days D+1 to D+3 and can be updated on gas day D (for that gas day). Further submissions beyond D+3 may be made. Intra-day submissions for the current gas day (D) will be accepted up to the end of gas day. AEMO always publishes the latest LCA submission.

4.5.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that applicable under the pipeline contract or market rules.	Yes	datetime	2018-09-23
Flag	Flag	<i>LCA flag</i> for a <i>BB pipeline</i> or <i>BB compression facility</i> categorised as red, amber, or green.	Yes	varchar(5)	RED; AMBER; GREEN
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the change in the <i>LCA flag</i> and the times, dates, or duration for which those changes are expected to apply.	Yes	varchar(800)	Compressor outage. 2 week outage.

LCA flags for *BB pipelines* are in the *BB Procedures*.

Data submission examples are listed in Appendix A3.

4.5.2 Validation Rules

- Gas Date must conform to the date format YYYY-MM-DD.
- Gas Date can be for D, D+1, or D+2.
- Submissions must only contain Facility Ids registered to the Company Id.
- Rolling forward - The last three-day Linepack Capacity Adequacy Outlook provided for that *BB pipeline* or *BB compression facility* is deemed to be unchanged.
- Rolling forward - The Linepack Capacity Adequacy flag for the subsequent gas day is deemed to be the same as the Linepack Capacity Adequacy flag for D+2.
- For CSV file submissions, Description, and Capacity Description with commas must be enclosed in double quotes, or exclude any commas
- Users will be able to submit linepack capacity adequacy data for any future gas date.

4.6 Medium Term Capacity Outlook

4.6.1 Transaction definition

Transaction name	MEDIUM_TERM_CAPACITY_OUTLOOK
Purpose	Provide details of any activity expected to affect the daily capacity of a <i>BB pipeline, BB production, BB storage, BB Compression, LNG export, or LNG import facility</i> in the next 12 months beyond the current short term capacity outlook.
Submission cut-off time	Not applicable as this report is ad hoc.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, BB storage, BB Compression, LNG export, and LNG import facilities.</i>
Exemptions	No exemptions are given for this submission.
Notes	Medium Term Capacity Outlook (MTCO) is an adhoc submission with a start and end date and is typically only provided if there is a change of capacity materially different to nameplate rating on each day that the information is provided to <i>BB shippers</i> by a <i>facility operator</i> for the <i>BB facility</i> . A subsequent submission for all or part of the date range of a previous MTCO will replace the MTCO for that <i>BB facility</i> . Where a <i>BB reporting entity</i> submits a Facility Id with record blank values for the remaining fields, this clears previous Medium Term Capacity Outlook submissions where the From Gas Date is on or after the current gas day (D) for the <i>BB facility</i> . Provide a meaningful description of the key reason for the change in capacity in the 'Description Field'.

4.6.2 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
From Gas Date	FromGasDate	Date of gas day. Any time component will result in submission being rejected. The gas day is applicable under the pipeline contract or market rules.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	datetime	2018-09-23
To Gas Date	ToGasDate	Date of gas day. Any time component will result in submission being rejected. The gas day is that applicable under the pipeline contract or market rules.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	datetime	2018-09-23
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage, or MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any facility that is 'mothballed', decommissioned or down-rated and / or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months).	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	varchar(20)	STORAGE; MDQ
Outlook Quantity	OutlookQuantity	Capacity Outlook quantity. Value in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank. This clears all existing future dated Medium Term Capacity Outlook submissions.	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	Indicates whether the capacity is for injecting into or withdrawing from a facility. Gas Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i> or <i>LNG import facility</i> Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i> or <i>LNG export facility</i>	Conditional This field is mandatory for <i>BB storage</i> , <i>LNG export</i> and <i>LNG import</i> facilities with a MDQ Capacity Type.	varchar(20)	RECEIPT; DELIVERY; PROCESSED; DELIVERYLNGST OR

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		<p>Processed: The flow direction type only used for capacities. For LNG export, it represents the amount of gas that can be processed to a liquefied state on a gas day. For LNG import, it represents the amount of gas that can be received and processed into storage on a gas day.</p> <p>Delivery LNG Storage: The flow direction type only used for capacities. For LNG import, it represents the amount of gas withdrawn for storage for processing to a gaseous state on a gas day.</p>	Otherwise leave this blank.		
Capacity Description	CapacityDescription	Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information. This could be clarifying the 'name plate' or describing the limiting factor used to determine the 'name plate' capacity.	Conditional This information is mandatory for <i>BB pipeline</i> and <i>BB compression facility</i> submissions with a MDQ Capacity Type. <i>LNG export facilities</i> may also enter this information although it is not mandatory. Otherwise leave this blank.	varchar(1000)	
Receipt Location	ReceiptLocation	The Connection Point Id that best represents the receipt location. In conjunction with the Delivery location, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipeline</i> submissions with a MDQ Capacity Type. Otherwise leave this blank.	int	1200001
Delivery Location	DeliveryLocation	The Connection Point Id that best represents the delivery location. In conjunction with the receipt location, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipelines</i> submissions with a MDQ Capacity Type. Otherwise leave this blank.	int	1300056
Description	Description	Describe reasons or provide comments directly related to the outlook quantity and the times, dates, or duration for which those changes in quantities are expected to apply. This would be the 'outage type' and include the equipment involved. Include information describing the location of transport routes affected for example, Eastern Gas Pipeline from Longford to Horsley Park. Where the	Conditional This field can be left blank if all other fields (excluding Facility Id) are also left blank.	varchar(1000)	EGP from Longford to Horsley Park, compressor outage. 2 week outage.

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		capacity outlook affects multiple days for the same reason, these events are to be summarised as one line, with the summary applied across the impacted days.			

Data Submission example is listed in Appendix A3.

4.6.3 Requirements

- Outlook Quantity values must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. An Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- *BB storage facilities* are required to report capacity for receipts into, and deliveries from, the *BB storage facility* as well as the quantity of natural gas that can be held in storage.
- *LNG export facilities* are required to report the amount of gas that can be processed to a liquefied state on a gas day and the amount of gas that can be received from a pipeline on a gas day
- *LNG import facilities* are required to report the amount of gas that can be received and processed into storage on a gas day; the amount of gas that can be held in storage; the amount of gas that can be withdrawn from storage for processing to a gaseous state on a gas day; and the amount gas that can be injected into one or more pipelines from the facility on a gas day
 - *BB Production facilities* are required to report the expected daily capacity of the facility
 - *BB Compression facilities* are required to report the expected daily capacity of the facility
 - Where a facility's capacity is reduced to zero, a zero value must be submitted.
 - On submission of a Medium Term Capacity Outlook, all existing submissions for a facility, where the start date is on or after the current gas day, shall be deactivated and replaced with the new submission. Active Medium Term Capacity Outlooks where the start date is before the current gas day and the end date is on or after the current gas day will be end dated to the current gas day-1.
 - Participants shall have the ability to deactivate all existing Medium Term Capacity Outlook submissions for a facility by submitting a record with the Facility ID and blank values for the remaining fields. This will deactivate all Medium Term Capacity Outlook submissions for the specified facility where the start date is on or after the current gas day, and will also end date any active Medium Term Capacity Outlook submissions.

- Historical records where the Medium Term Capacity Outlook end date is before the current gas day cannot be modified or deleted.
- Submissions must only contain *BB pipelines, BB production, BB storage, BB Compression, LNG export, or LNG import facilities* for which the *BB reporting entity* is registered.
- Active Flag is not submitted in *Medium Term Capacity outlook*

4.6.4 Validation rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the Outlook Quantity.
- *BB pipeline* and *BB compression facilities* must submit a Capacity Description.
- All facilities must include Description in their submissions (unless submitting a file to deactivate all future MTCO's)
- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes, or exclude any commas.

4.7 Nameplate Rating

Transaction name	NAMEPLATE_RATING
Purpose	Provide the nameplate rating of each <i>BB facility</i> annually or information about any planned permanent capacity reduction or expansion due to modification of the <i>BB facility</i> . With respect to production capacity, Standing Capacity should take long term field performance trends into account.
Submission frequency	Annually
Submission cut-off time	31 March and whenever the standing capacity changes.
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB production facilities, BB storage facilities, BB compression, LNG export, LNG import, and Large user facilities</i> .
Exemptions	No exemptions are given for this submission.
Notes	Call AEMO if you need to reactivate a deactivated record Once a record is inactive, MTCO must be manually changed to zero. STCO and Uncontracted Capacity Outlook Reports will automatically be set to zero.

4.7.1 Data elements and fields

Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Capacity Type	CapacityType	Capacity type can be either:	Yes	varchar(20)	STORAGE; MDQ

Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
		<p>Storage: Holding capacity in storage, or</p> <p>MDQ: Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any facility that is 'mothballed', decommissioned or down-rated and / or cannot be recalled within 1 week, planned maintenance excepted. Reflects any long terms changes (greater than 12 months), or</p> <p>The maximum quantity of gas that can be compressed by the <i>BB compression facility</i> on a given day, without breaching operational limits.</p>			
Capacity Quantity	CapacityQuantity	Standing capacity quantity.	Yes	number(18,3)	32.232 25.2 (if the value is 25.200)
Flow Direction	FlowDirection	<p>Gas Flow Direction can be:</p> <p>Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i> or <i>LNG export facility</i></p> <p>Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i> or <i>LNG import facility</i></p> <p>Processed: The flow direction type only used for capacities. For <i>LNG export facilities</i>, it represents the amount of gas that can be processed to a liquefied state on a gas day. For <i>LNG import facilities</i>, it represents the amount of gas that can be received and processed into storage on a gas day.</p> <p>Delivery LNG Storage: The flow direction type only used for capacities. For <i>LNG import facilities</i>, it represents the amount of gas withdrawn from storage for processing to a gaseous state on a gas day.</p>	<p>Conditional</p> <p>This field is mandatory for BB storage (MDQ Capacity Type), LNG Export and LNG Import facilities. Otherwise leave this blank.</p>	Varchar(20)	RECEIPT; DELIVERY; PROCESSED; DELIVERYLNGSTOR
Capacity Description	CapacityDescription	<p>Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information.</p> <p>If applicable, <i>BB compression facilities</i> must also provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those</p>	<p>Conditional</p> <p>This information is mandatory for <i>BB pipelines</i> and <i>BB compression facilities</i>. Otherwise leave this blank.</p>	varchar(1000)	This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility

Data	Date field name	Description	Mandatory	Data type	Example / Allowed values
		conditions including expected inlet and outlet pressures.			
Receipt Location	ReceiptLocation	The Connection Point ID for the receipt location. In conjunction with the Delivery point, this will indicate direction and location of the capacity.	Conditional This information is mandatory for BB pipelines. Otherwise leave this blank.	int	1200001
Delivery Location	DeliveryLocation	The Connection Point ID for the delivery location. In conjunction with the Receipt point, this will indicate direction and location of the capacity.	Conditional This information is mandatory for BB pipelines. Otherwise leave this blank.	int	1300056
Effective Date	EffectiveDate	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the quantity or the change in quantity provided in relation to a <i>BB facility</i> (such as daily production data, nameplate rating, <i>LCA flag</i> , etc.), and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	Yes	varchar(1000)	increase in nameplate pipeline capacity due to completion of VNIE Phase B
Active Flag	ActiveFlag		No	Bit	0,1

Data submission examples are listed in Appendix A3.

4.7.2 Requirements

- Capacity Quantity must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. A Capacity Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- *BB compression facilities* submit a capacity quantity, and they must also provide a Capacity Description of other maximum quantities under other standard operating conditions including a description of those conditions including expected inlet and outlet pressures
-

- *.BB production facilities* are required to submit the maximum daily capacity of the facility
 - BB Storage facilities are required to submit:
 - The quantity of natural gas that can be withdrawn from the gas storage facility for injection into another facility on a gas day
 - The quantity of natural gas that the gas storage facility can receive and process into storage on a gas day
 - The maximum quantity of natural gas that the gas storage facility can hold in storage
 - *LNG export facilities* are required to report:
 - the quantity of natural gas that the facility can receive from a pipeline on a gas day
 - The quantity of natural gas that the facility can process to a liquefied state on a gas day.
 - *LNG import facilities* are required to report:
 - The quantity of LNG that the LNG import facility can receive and process into storage on a gas day
 - The quantity of LNG that the LNG import facility can hold in storage on a gas day
 - The quantity of LNG that can be withdrawn from storage for processing to a gaseous state on a gas day
 - The quantity of natural gas (in a gaseous state) that can be injected into one or more pipelines from the facility on a gas day
- *BB Large user facilities* are required to report the quantity of natural gas that connections to the facility are capable of allowing to be delivered to the facility from a pipeline on a gas day.
- Submissions must only contain *BB pipelines, BB production facilities, BB storage facilities BB compression facility, LNG export, LNG import, or Large user facilities* for which the *BB reporting entity* is registered
- Each submission must include a complete set of all *nameplate* rating capacities for the facility
- When entering a Nameplate, any previously entered Nameplate ratings that have later effective dates must also be updated as they will become applicable on their Effective Date
-

4.7.3 Validation rules

- Effective Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Submissions must only contain FacilityIds for which the *BB reporting entity* is registered.
- Negative values are not accepted for the receipt or delivery Capacity Quantity.
- .
- Pipeline Capacity Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points.
- *BB compression facilities* must submit a Capacity Quantity with a Capacity Description for the facility.

- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes or exclude any commas.
- All facilities must include a 'Description'
-
- ActiveFlag of 1 represents that Nameplate is active and ActiveFlag of 0 represents that Nameplate is inactive
- If active flag is not submitted, a value of ActiveFlag = 1 is assumed (nameplate is active). To make a Nameplate inactive, ActiveFlag = 0 must be included in the submission
- If ActiveFlag=0 then CapacityQuantity must be 0
- Once a facility has been marked 'Inactive', you must contact AEMO to reinstate an 'Active' status

4.8 Nominations and Forecasts

Transaction name	NOMINATIONS_AND_FORECASTS
Purpose	For <i>BB pipelines</i> forming part of a Declared Transmission System, provide on each gas day, the aggregated scheduled injections and aggregated scheduled withdrawals at each controllable system point for D to D+2. For all other <i>BB reporting entities</i> , provide on each gas day D the aggregated nominated and forecast injections and aggregated nominated and forecast withdrawals for D to D+6.
Submission frequency	Daily
Submission cut-off time	For storage facilities providing nominations, one hour after the start of gas day D. For storage facilities providing forecast information and for other facilities in all cases, 9:00pm on gas day D
Rollover	No rollover.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines</i> , <i>BB production facilities</i> , <i>BB storage facilities</i> , <i>BB compression facilities</i> and <i>LNG Import facilities</i> ..
Exemptions	Two facilities connected to a single connection point may both be registered by AEMO. If one of these facilities is exempt from reporting flows for the connection point, submissions from that Facility ID are not mandatory.
Notes	Submissions may contain data for the current gas day, which are intra-day changes to nominations and forecasts. Intra-day submissions for the current gas day (D) will be accepted up to the end of gas day. AEMO always publish the latest Delivery Nomination submission. However, a timeline of historic submissions may be reportable. All submission detail available in participants private report in the Markets Portal

4.8.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Gas Date	GasDate	Date of gas day. Any time component supplied will be ignored. The gas day is that	Yes	datetime	2018-09-23

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		applicable under the pipeline contract or market rules.			
Facility ID	FacilityId	A unique AEMO defined Facility identifier.	Yes	Int	520345
Connection Point ID	ConnectionPointId	A unique AEMO defined connection point identifier.	Conditional This information is mandatory for <i>BB pipelines</i> Otherwise leave this blank.	Int	1201001
Flow Direction	FlowDirection	Flow Direction can be: Receipt: The flow of gas <u>into</u> the <i>BB facility</i> , or Delivery: The flow of gas <u>out</u> of the <i>BB facility</i> . Compressed: The action performed by the <i>BB compression facility</i>	Yes	varchar(20)	RECEIPT; DELIVERY; COMPRESSED;
Nomination Quantity	NominationQuantity	Delivery Nomination quantity, or Gas compression Nomination quantity.	Yes	number(18,3)	32.561 25.2 (if the value is 25.200)

4.8.2 Requirements

- Nomination Quantity values greater than zero must be submitted in TJs accurate to three decimal places.
- A *BB pipeline* must provide Nomination Quantities for each connection point.
- Where a *BB storage* or *BB production* facility has flows in both directions, an aggregated Nomination Quantity and Flow Direction must be submitted for the facility.
- A *BB compression facility* must provide Nomination Quantities of gas compressed by the facility
- Where there are zero receipts or zero deliveries at a connection point, a Nomination Quantity of zero must be submitted for the relevant direction.
- Where a connection point is unidirectional a Nomination Quantity for this direction, either as a receipt or delivery must be provided.
- Submitted connection points must be registered against the Facility ID during the connection point registration process.
- For each connection point in a submission, check the connection point's 'Flow Direction' as defined in the reference data. If the connection point is bi-directional, a submission must contain a Nomination Quantity for receipt and delivery.

- Submissions must only contain *BB pipelines, BB production facilities, BB storage facilities, BB compression facilities* or *LNG Import facilities* for which the BB reporting entity is registered.

Data submission examples are listed in Appendix A3.

4.8.3 Validation Rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Nomination Quantity.
- Users will be able to submit nomination and forecast flow data for any future gas date.
- Connection Point ID's are only accepted where facility type is Pipeline

4.9 Uncontracted Capacity Outlook

Transaction name	UNCONTRACTED_CAPACITY_OUTLOOK
Purpose	Provides information on: Uncontracted primary capacity on <i>BB pipelines, BB storage facilities, BB compression, BB Production and LNG import facilities</i> for the next 36 months. Note: This does not include <i>BB pipelines</i> in the Declared Transmission System.
Submission cut-off time	By 7:00 pm on the last gas day of each month.
Rollover	Submitted values roll forward in the following manner: The Uncontracted Capacity Outlook data is deemed to be unchanged for each of the months specified in the most recent submission; and For subsequent months, the Uncontracted Capacity Outlook data is deemed to be the same as the data for the last month in the most recent Uncontracted Capacity Outlook submission.
Required by	The <i>BB reporting entity</i> for <i>BB pipelines, BB storage facilities, BB compression, BB Production and LNG import facilities</i> .
Exemptions	No exemptions are given for this submission.

4.9.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	A unique AEMO defined Facility identifier.	Yes	int	520345
Outlook Month	OutlookMonth	The outlook month.	Yes	int	04
Outlook Year	OutlookYear	The outlook year.	Yes	int	2018
Capacity Type	CapacityType	Capacity type can be either: Storage: Holding capacity in storage for a <i>BB Storage</i> or <i>LNG Import facility</i> that its facility operator has	Yes	varchar(20)	STORAGE; MDQ

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		<p>available for sale or that it will have available for sale., or</p> <p>MDQ: Uncontracted <i>primary firm capacity</i> on the <i>BB facility</i> that the BB provider/operator has available for sale or that it will have available for sale.</p> <p>For a <i>BB storage facility</i>, this is <i>primary firm capacity</i> for storage in the <i>BB storage facility</i>; <i>primary firm capacity</i> for injection of gas into the <i>BB storage facility</i>; and <i>primary firm capacity</i> for withdrawal of gas from the <i>BB storage facility</i>.</p> <p>For an <i>LNG import facility</i>, the <i>primary firm capacity</i> for storage in the <i>LNG import facility</i>; and the <i>primary firm capacity</i> for regasification by the <i>LNG import facility</i>,</p> <p>For any other BB facility this is the <i>primary firm capacity</i> of the facility..</p>			
Outlook Quantity	OutlookQuantity	Daily average quantity across a month, expressed in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	Yes	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	FlowDirection	<p>Indicates whether the capacity is for a <i>BB storage facility</i> to inject into or withdraw from a <i>BB pipeline</i>. Flow Direction can be:</p> <p>Receipt: The flow of gas <u>into</u> the <i>BB storage facility</i>, or</p> <p>Delivery: The flow of gas <u>out</u> of the <i>BB storage facility</i>.</p>	<p>Conditional</p> <p>This field is mandatory for <i>BB storage facilities</i> with MDQ Capacity Type value. Otherwise leave this blank.</p>	varchar(20)	RECEIPT; DELIVERY
Capacity Description	CapacityDescription	Free text to describe the meaning of the capacity number provided, including a description of material factors that impact the capacity number and any other relevant information.	<p>Conditional</p> <p>This information is mandatory for BB pipelines and <i>BB compression facilities</i> with a MDQ Capacity Type. Otherwise leave this blank.</p>	varchar(1000)	
Receipt Location	ReceiptLocation	The Connection Point Id for the receipt location. In conjunction with the Delivery point, this will indicate direction and location of the capacity.	<p>Conditional</p> <p>This information is mandatory for <i>BB pipeline</i> submissions with a MDQ Capacity Type. Otherwise leave this blank.</p>	Int	1200001

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Delivery Location	DeliveryLocation	The Connection Point Id for the delivery location. In conjunction with the Receipt point, this will indicate direction and location of the capacity.	Conditional This information is mandatory for <i>BB pipelines</i> with a MDQ Capacity Type. Otherwise leave this blank.	Int	1300056
Description	Description	Free text facility use is restricted to a description for reasons or comments directly related to the quantity or the change in quantity provided in relation to a <i>BB facility</i> (such as daily production data, nameplate rating, <i>LCA flag</i> , etc.), and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	No	varchar(1000)	

4.9.2 Requirements

- Outlook Quantity must be submitted in TJs accurate to three decimal places.
- *BB pipelines* are required to submit capacities for each direction in which natural gas can be transported on the pipeline. An Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points. Note that for complex pipeline facilities that involve more than two directions of flow, more than two capacities may be required.
- *BB storage facilities* are required to report capacity for receipts into, and deliveries from, the *BB storage facility* as well as the quantity of natural gas that can be held in storage.
- *LNG Import facilities* are required to report capacity for regassification by the *LNG Import facility* as well as the capacity for storage in the facility.
- *BB Compression facilities* and *BB Production facilities* must report the capacity available in the facility
- Where a facility's capacity is reduced to zero, a zero value must be submitted.
- Submissions must only contain *BB pipelines*, *BB storage facilities*, *BB Production facilities*, *LNG import* or *BB compression facilities* for which the *BB Reporting Entity* is registered.

Data submission examples are listed in Appendix A3.

4.9.3 Validation Rules

- GasDate must conform to the date format YYYY-MM-DD.
- Submissions must only contain Facility Ids registered to the Company Id.
- Negative values are not accepted for the receipt or delivery Capacity Quantity.
- Capacities can be updated for a maximum of two months in the past

- For CSV file submissions, Description and Capacity Description with commas must be enclosed in double quotes, or exclude any commas.
- Pipeline Outlook Quantity must be submitted with a Capacity Description and the Delivery and Receipt Points.
- *BB compression facilities* must submit an Outlook Quantity with a Capacity Description for the facility.
- FlowDirection is case sensitive

4.10 BB Capacity Transaction

Transaction name	BB_CAPACITY_TRANSACTION
Purpose	Provides information on: <i>BB capacity transactions</i> , excluding those concluded through the <i>gas trading exchange</i> .
Submission cut-off time	The earlier of: 1 business day after the <i>trade date</i> for the <i>BB capacity transaction</i> ; and The day prior to the date on which the <i>service term</i> for the <i>BB capacity transaction</i> starts. Or where the <i>service term</i> for a <i>BB capacity transaction</i> starts on the <i>trade date</i> for the transaction, as soon as reasonably practicable on the <i>trade date</i> .
Rollover	No Rollover
Required by	The <i>BB reporting entity</i> for <i>BB transportation facility user</i> or <i>capacity transaction reporting agent</i>
Exemptions	No exemptions are given for this submission. All submission details available in participants private report in the Markets Portal

4.10.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Trade Id	TradeId	A unique AEMO defined trade identifier.	Conditional This field is mandatory when updating an existing trade.	int	123456
Trade Date	TradeDate	Date the trade was made.	Yes	date	2018-03-01
From Gas Date	FromGasDate	Effective start date of the trade	Yes	date	2018-03-10
To Gas Date	ToGasDate	Effective end date of the trade	Yes	date	2018-03-20
Buyers Name	BuyerName	The descriptive name of the buyer	Yes	Varchar (255)	Star Energy
Sellers Name	SellerName	The descriptive name of the seller	Yes	Varchar (255)	Purple Energy

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility Id	FacilityId	The unique AEMO defined Part 24 Facility Identifier	Conditional This information is mandatory for Part 24 facilities. Otherwise leave this blank.	int	520001
Facility Name	FacilityName	The descriptive name of the Facility that is not registered as a Part 24 Facility.	Conditional This information is mandatory for facilities that are NOT Part 24 facilities. Otherwise leave this blank.	Varchar (255)	Tamworth pipeline
Flow Direction	FlowDirection	The directional of flow relative to the general direction of the facility that is not registered as a Part 24 facility. Valid values are: NORTH NORTH_EAST NORTH_WEST EAST SOUTH SOUTH_EAST SOUTH_WEST WEST	Conditional This information is mandatory for facilities that are NOT Part 24 facilities. Otherwise leave this blank.	Varchar (255)	NORTH
Standard OTSA	StandardOTSA	Identify if a standard OTSA was used. Valid values: YES NO	Yes	Varchar (255)	YES
BB Transportation Service Type	BBTransportationServiceType	The transportation service type. Valid values: FORWARD_HAUL BACKHAUL PARK LOAN COMPRESSION	Yes	Varchar (255)	FORWARD_HAUL;
Priority	Priority	The priority of the traded capacity	Yes	Varchar (255)	Secondary firm
Receipt Point Id	ReceiptPointId	The unique AEMO defined Receipt Part 24 Service Point identifier. This is the point where gas is injected into the pipeline.	Conditional This information is mandatory for Part 24 facilities; and BB Transportation Service Type = FORWARD_HAUL, BACKHAUL or COMPRESSION.	int	3001
Delivery Point Id	DeliveryPointId	The unique AEMO defined Delivery Part 24 Service	Conditional	int	4001

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		Point identifier. This is the point where gas is withdrawn from the pipeline.	This information is mandatory for Part 24 facilities; and BB Transportation Service Type = FORWARD_HAUL, BACKHAUL or COMPRESSION.		
Park Loan Point Id	ParkLoanPointId	The unique AEMO defined Part 24 Service Point identifier.	Conditional This information is mandatory for Part 24 facilities; and BB Transportation Service Type = PARK or LOAN.	int	5001
Quantity	Quantity	The traded maximum daily quantity (MDQ) (GJ/day).	Yes	int	240
MHQ	MHQ	The traded maximum hourly quantity (GJ/hour).	Yes	int	10
Price	Price	The price of the capacity traded (\$/GJ/day).	Yes	Decimal (18,2)	4.20
Price structure	PriceStructure	The price structure applied over the term of the trade.	No	varchar (255)	Variable
Price escalation mechanism	PriceEscalationMechanism	The price escalation mechanism applied over the term of the trade.	No	varchar (255)	10% per annum

Data submission example is listed in Appendix A3.

4.10.2 Validation rules

- Delivery and Receipt Point Id's must be valid within the registered list of service points in the transportation service point register established under Part 24 where the Facility Id is populated.
- Park Loan Point Id's must be valid within the registered list of service points in the transportation service point register established under Part 24 where the Facility Id is populated.
- Facility Name and Flow Direction must be populated where the Facility is not registered under Part 24.
- Quantity and MHQ must be greater than 0
- Price must be equal to or greater than 0.

4.11 Auction Curtailment Notice

Purpose	Provides a notice if an auction service is subject to curtailment in respect of a gas day.
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Submission cut-off time	In accordance with Rule 190A(2), an auction curtailment notice must be provided to AEMO as soon as practicable after the BB reporting entity becomes aware of the circumstances giving rise to the curtailment. In accordance with Rule 190A(3), a BB reporting entity must update the auction curtailment notice for its BB auction facility if the information provided in the auction curtailment notice is no longer accurate, including due to circumstances resulting in additional curtailment of the auction service for the gas day.
Rollover	No Rollover
Required by	The <i>BB reporting entity</i> for <i>BB reporting entity</i> for a <i>BB auction facility</i> .
Exemptions	No exemptions are given for this submission.

4.11.1 Requirements

- The data elements and requirements for this submission are specified in the Capacity Transfer and Auction Interface Protocol, provided for by the Capacity Transfer and Auction Procedures.
- The transaction has been specified such that the facility operator for a Part 24 facility will provide this information in accordance the Capacity Transfer and Auction Interface Protocol.

4.12 Daily Auction Service Curtailment Information

Purpose	Provides information about the amount of curtailed quantity of an auction service for each BB Auction Facility.
Submission cut-off time	As specified in the Capacity Transfer and Auction Procedures
Rollover	No Rollover
Required by	<i>BB reporting entity</i> for a <i>BB auction facility</i> .
Exemptions	No exemptions are given for this submission.

4.12.1 Requirements

- The data elements and requirements for this submission are specified in the Capacity Transfer and Auction Interface Protocol, provided for by the Capacity Transfer and Auction Procedures.
- The report has been specified such that the facility operator for a Part 24 facility will provide this information in accordance with 21.2.1 of the Capacity Transfer and Auction Procedures.
- AEMO will aggregate RQs provided to AEMO in accordance with 21.2.1 of the Capacity Transfer and Auction Procedures for each BB auction facility for each gas day for publication on the BB as daily auction service curtailment information for each BB auction facility – this will be published as the ‘Revised Auction Quantities’ report.

4.13 Shipper List

Transaction name	SHIPPER_LIST
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Purpose	Provides details on the <i>BB shippers</i> who have contracted <i>primary firm capacity</i> on the <i>BB facility</i> . It includes the facility types: <ul style="list-style-type: none"> • Primary Storage capacity • Primary Compression capacity • Primary Pipeline capacity
Submission frequency	Ad hoc
Rollover	No rollover
Required by	<i>BB storage, BB compression, and BB pipeline facilities</i>
Exemptions	Not available
Notes	Historical versions will be available from the effective date.

4.13.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility ID	FacilityId	The unique AEMO defined Part 24 Facility Identifier	Yes	int	520001
Shipper Name	ShipperName	<i>BB shippers with primary firm capacity</i>	No	Varchar (200)	Tamworth pipeline
Effective Date	EffectiveDate	Gas date that corresponding record takes effect. Any time component supplied will be ignored.	Yes	datetime	2018-03-23

4.13.2 Requirements

- *BB storage, BB compression, and BB pipeline facility* types must report the list of *BB shippers* who have contracted *primary firm capacity* on the *BB facility*
- Each Submission must contain a complete list of Shippers for each effective date.
- If there are no *BB shippers* on a facility, a submission must still be made with ShipperName field empty
- If a future list is no longer relevant, a new submission with the same effective date and correct *BB shippers* should be submitted in it's place

4.13.3 Validation Rules

- Effective Date must conform to the date format YYYY-MM-DD.
- Submissions must only contain FacilityIds for which the *BB reporting entity* is registered.
- .

4.14 Short Term Transaction

Transaction name	SHORT_TERM_TRANSACTION
Purpose	Provides information on: <i>Short term gas transactions, excluding those concluded through the gas trading exchange.</i>
Submission cut off time	The earlier of: 1 business day after the <i>trade date</i> for the <i>BB short term gas transaction</i> and The day prior to the day on which the supply period for the <i>BB short terms gas transaction</i> start. Or where the <i>supply period</i> for a <i>BB short term gas transaction</i> starts on the <i>trade date</i> for the transaction, as soon as reasonably practicable on the <i>trade date</i> .
Rollover	No Rollover
Required by	The <i>gas seller</i> of a <i>BB short term gas transaction</i> or <i>reporting agent</i>
Exemptions	No exemptions are given for this submission.
Notes	All submission detail available in participants private report in the Markets Portal

4.14.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Transaction ID	TransactionID	A unique AEMO defined transaction identifier.	Conditional This field is mandatory when updating an existing trade.	Int	123456
Trade Date	TradeDate	Date the trade was made.	Yes	Date	2022-01-01
From Gas Date	FromGasDate	Effective start date of the trade	Yes	Date	2022-07-01
To Gas Date	ToGasDate	Effective end date of the trade	Yes	Date	2022-12-31
Buyer Name	BuyerName	The descriptive name of the buyer	Yes	Varchar (255)	Star Energy
Seller Name	SellerName	The descriptive name of the seller	Yes	Varchar (255)	Purple Energy
State	State	The state where the <i>gas seller</i> must supply the gas	Yes	Varchar (5)	VIC,NSW,QLD,SA,N T,TAS
Location	Location	The location at which the <i>gas seller</i> must supply the gas	Yes	Varchar (255)	Delivered at Horsley Park - 1202003
Transaction Type	TransactionType	The type of gas transaction. Can be one of; supply transaction; location based swap transaction; time based swap transaction; and location and time based swap transaction	Yes	Varchar (255)	Supply, Swap Location, Swap Time, Swap Both

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Transaction Quantity	TransactionQuantity	The total maximum quantity of gas that may be sold or swapped (as applicable) under the transaction (in GJ)	Yes	Decimal (18,3)	10000.555
Maximum Daily Quantity	MaximumDailyQuantity	The maximum quantity that can be required to be supplied on any gas day in the supply period (in GJ/day)	Yes	Decimal (18,3)	0.555
Take Or Pay Quantity	TakeOrPayQuantity	The total minimum quantity of gas that may be sold or swapped (as applicable) under the transaction (in GJ)	Yes	Decimal (18,3)	5000.111
Price	Price	The transaction price (in \$/GJ)	Yes	Decimal (18,2)	10.45
Price Structure	PriceStructure	The price structure applied over the term of the trade.	No	Varchar (255)	Varies inline with ABC index
Price Escalation Mechanism	PriceEscalationMechanism	The price escalation mechanism applied over the term of the trade.	No	Varchar (255)	10% per annum
Cancelled	Cancelled	Cancelled Flag. Can be 1, transaction is cancelled or 0, transaction is not cancelled	No	Bit	0,1

4.14.2 Requirements

- All fields are mandatory except for TransactionID, Cancelled, PriceStructure and PriceEscalationMechanism
- If the field Cancelled is omitted, it will default to '0'
- The location at which the *gas seller* must supply the gas should include reference to a receipt or delivery point or other location identifier

4.14.3 Validation Rules

- Trade Date must conform to the date format YYYY-MM-DD.
- From Gas Date must conform to the date format YYYY-MM-DD.
- To Gas Date must conform to the date format YYYY-MM-DD.
- State must be one of VIC,NSW,QLD,SA,NT,TAS
- State is case sensitive
- TransactionType must be one of Supply, Swap Location, Swap Time, Swap Both
- Transaction Type is case sensitive
- TransactionQuantity must be greater than or equal to zero
- MaximumDailyQuantity must be greater than or equal to zero
- TakeOrPayQuantity must be greater than or equal to zero
- Price must be greater than or equal to zero
-

4.15 Storage Capacity Transaction

Transaction name	STORAGE_CAPACITY_TRANSACTION
Purpose	Provides information on: <i>Storage capacity transactions</i>
Submission cut-off time	The earlier of: 1 business day after the <i>trade date</i> for the <i>BB capacity transaction</i> ; and The day prior to the date on which the <i>service term</i> for the <i>BB capacity transaction</i> starts. Or where the <i>service term</i> for a <i>BB capacity transaction</i> starts on the <i>trade date</i> for the transaction, as soon as reasonably practicable on the <i>trade date</i>
Rollover	No Rollover
Required by	The capacity <i>seller</i> of a <i>BB capacity transaction</i> or <i>reporting agent</i>
Exemptions	No exemptions are given for this submission.
Notes	All submission detail available in participants private report in the Markets Portal

4.15.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Trade Id	TradeId	A unique AEMO defined trade identifier.	Conditional This field is mandatory when updating an existing trade.	Int	123456
Trade Date	TradeDate	Date the trade was made.	Yes	Date	2021-03-01
From Gas Date	FromGasDate	Effective start date of the trade	Yes	Date	2021-04-01
To Gas Date	ToGasDate	Effective end date of the trade	Yes	Date	2021-05-01
Buyer Name	BuyerName	The descriptive name of the buyer	Yes	Varchar 255	Star Energy
Seller Name	SellerName	The descriptive name of the seller	Yes	Varchar 255	Purple Energy
Facility Id	FacilityId	The unique AEMO defined Part 24 Facility Identifier representing the gas storage facility by means of which the service is provided	Yes	Int	520001

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Priority	Priority	The priority of the traded capacity	Yes	Varchar 255	Secondary firm
Maximum Storage Quantity	MaximumStorageQuantity	The storage capacity (in GJ)	Yes	Decimal(18,3)	345.678
Injection Capacity	InjectionCapacity	The injection capacity, expressed as a maximum daily quantity or MDQ (in GJ/day)	Yes	Decimal(18,3)	4.333
Withdrawal Capacity	WithdrawalCapacity	The withdrawal capacity, expressed as a maximum daily quantity or MDQ (in GJ/day)	Yes	Decimal(18,3)	5.676
Price	Price	The price of the capacity traded (\$/GJ/day).	Yes	Decimal (18,2)	4.20
Price structure	PriceStructure	The price structure applied over the term of the trade.	Yes	Varchar(255)	Variable
Price escalation mechanism	PriceEscalationMechanism	The price escalation mechanism applied over the term of the trade.	No	Varchar(255)	10% per annum
Cancelled	Cancelled	Cancelled Flag. Can be 1, transaction is cancelled or 0, transaction is not cancelled	No	Bit	1, 0, TRUE, FALSE

Data submission example is listed in Appendix A3.

4.15.2 Requirements

- All fields are mandatory except for Tradeld, Cancelled and PriceEscalationMechanism
- If the field Cancelled is omitted, it will default to '0'
-

4.15.3 Validation rules

- Trade Date must conform to the date format YYYY-MM-DD.
- From Gas Date must conform to the date format YYYY-MM-DD.
- To Gas Date must conform to the date format YYYY-MM-DD.
- Price must be greater than or equal to zero
- Maximum Storage Quantity must be greater than zero
- Injection Capacity must be greater than zero
- Withdrawal Capacity must be greater than zero

4.16 LNG Transaction

Transaction name	LNG_TRANSACTION
Purpose	Provides information on: <i>Short term LNG Export transactions</i>
Submission cut-off time	The earlier of: 1 business day after the <i>trade date</i> for the <i>short term LNG export transaction</i> ; and The day prior to the date on which the <i>supply period</i> for the short term LNG export <i>transaction</i> starts.
Rollover	No rollover
Required by	The <i>gas seller</i> of a <i>short term LNG Export transaction</i> or <i>reporting agent</i>
Exemptions	No exemptions are given for this submission.
Notes	All submissions available in participants private report in the Markets Portal

4.16.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Transaction Id	TransactionId	A unique AEMO defined transaction identifier.	Conditional This field is mandatory when updating an existing trade.	Int	123456
Facility Id	FacilityId	The LNG export facility at which the LNG is loaded	Yes	Int	520001
Trade Date	Trade Date	Date the trade was made.	Yes	Datetime	2022-04-01
Volume PJ	VolumePJ	The transaction quantity (in PJ's)	Yes	Number(10,3)	2.333
Selling Parties	SellingParties	The descriptive name of the seller	Yes	Varchar(200)	Star Energy
Buying Parties	BuyingParties	The descriptive name of the buyer	Yes	Varchar(200)	Purple Energy
Supply Period Start	SupplyPeriodStart	Effective start date of the transaction	Yes	Datetime	2022-05-01
Supply Period End	SupplyPeriodEnd	Effective end date of the transaction	Yes	Datetime	2022-05-31
FOB Price	FOBPrice	The free on board price for the LNG (in \$/GJ)	Yes	Numeric(18,3)	12.321
Price Structure	PriceStructure	The price structure applied over the term of the trade.	Yes	Varchar(255)	Variable

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Cancelled	Cancelled	Cancelled Flag. Can be 1, transaction is cancelled or 0, transaction is not cancelled	No	Bit	0,1

4.16.2 Requirements

- All fields are other than TransactionId and Cancelled are mandatory
- FacilityId must be of type 'LNGExport'
- FOBPrice is determined using assumptions, where applicable, about matters such as future index values or rates provided for in the BB Procedures
- If the field Cancelled is omitted, it will default to '0'
-

4.16.3 Validation Rules

- Trade Date must conform to the date format YYYY-MM-DD
- SupplyPeriodStart must conform to the date format YYYY-MM-DD
- SupplyPeriodEnd must conform to the date format YYYY-MM-DD
- Volume must be greater than or equal to zero
- FOBPrice must be greater than or equal to zero

4.17 LNG Shipment

Transaction name	LNG_SHIPMENT
Purpose	Provides information on: LNG Import and Export Shipments
Submission frequency	Ad hoc
Submission cut-off time	For an <i>LNG export facility</i> data must be provided to AEMO no later than the business day after completion of loading. For an <i>LNG import facility</i> data must be provided to AEMO no later than the business day after commencement of unloading.
Rollover	No rollover
Required by	The <i>BB reporting entity</i> for the LNG facility
Exemptions	No exemptions are given for this submission.
Notes	All submissions available in participants private report in the Markets Portal

4.17.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Facility ID	FacilityId	The unique AEMO defined Part 24 Facility Identifier	Yes	int	520001
Transaction ID	TransactionId	A unique AEMO defined transaction identifier.	No	Int	123456
Shipment Date	ShipmentDate	For LngImport the date unloading commences at the LNG import facility For LngExport the shipment departure date.	Yes	Datetime	2022-12-10
Volume PJ	VolumePJ	The volume of the transaction (in PJ)	Yes	Number(10,3)	3.564

4.17.2 Requirements

- FacilityId must be a registered LngExport or LngImport facility
- The ShipmentDate refers to the date unloading commences at the *LNG import facility* or the shipment departure date for an *LNG export facility*.

4.17.3 Validation Rules

- ShipmentDate must conform to the date format YYYY-MM-DD.
- The volume must be greater than or equal to zero or less than or equal to 20PJ's

4.18 Gas Field Interest Detail

Transaction name	GAS_FIELD_INTEREST_DETAIL
Purpose	To provide information about a <i>BB field interest</i>
Submission frequency	Submission required on registration, on change, and annually thereafter, not later than 40 business days after the <i>Annual Reporting Date</i> for the <i>BB field interest</i>
Rollover	No rollover
Required by	The <i>BB Reporting entity</i> for a <i>BB field interest</i>
Exemptions	Exemptions exist for <i>BB field's</i> located in the offshore area of the Northern Territory where: (a) Gas produced from the <i>BB field</i> is supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i> ; or (b) In the case of a <i>BB field</i> that has not commenced production, the <i>field owner</i> expects on reasonable grounds that gas to be produced from the <i>BB field</i> will be supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i> .
Notes	

4.18.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Field Interest Id	FieldInterestId	The unique AEMO defined Part 18 Facility Identifier	Yes	Int	123456
Effective Date	EffectiveDate	The date the record takes effect	Yes	Datetime	2022-06-23
Petroleum Tenements	PetroleumTenements	Information to identify the petroleum tenements of the BB field interest	Yes	Varchar(300)	Petroleum Tenement 3A
Processing Facilities	ProcessingFacilities	The processing facility used to process gas from the field	No	Varchar(300)	Existing Facilities
Resource Classification	ResourceClassification	Classification of the resources in the field as Conventional or Unconventional	Yes	Varchar(100)	Conventional / Unconventional
Resource Sub Classification	ResourceSubClassification	Any further sub-classification of the resources in the field	Yes	Varchar(100)	Eg: Coalbed methane, basin-centered gas, tight gas, tight oil, gas hydrates, natural bitumen, oil shale
Nature of Gas	NatureofGas	The nature of the gas in the field	Yes	Varchar(100)	Eg: Dry gas, gas condensate or gas found in conjunction with oil
Tenement Share	TenementShare	It's BB field interest in the petroleum tenements (as a percentage);	Yes	Numeric(10,3)	50.544

4.18.2 Requirements

- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.18.3 Validation Rules

- Submissions must only contain FieldInterestId's for which the submitter is the Responsible Participant
 - The EffectiveDate must be greater than or equal to today
 - TenementShare must be between 0 and 100 inclusive.
 - Resource Classification must be either Conventional or Unconventional (not case sensitive)

4.19 Gas Field Interest

Transaction name	GAS_FIELD_INTEREST
Purpose	To provide reserve and resource information about a <i>BB field interest</i>

Submission frequency Submission required on registration and annually thereafter, not later than 40 business days after the *Annual Reporting Date* for the *BB field interest*. The reserves and resources estimates must also be updated if:

A) The total amount of those reserves and resources estimates across all its *BB field interests* is no longer accurate by 50 PJ or more (up or down) as the result of:

- (i) A percentage change in any of its *BB field interests*;
- (ii) A re-evaluation of reserves or resources; or
- (iii) Discoveries of new reserves or resources including through extension of a field's proved area; or

B) A revised estimate of *1P reserves*, *2P reserves*, *3P reserves* or *2C resources* is published by the *BB reporting entity* or provided by the *BB reporting entity* to a state, federal or territory government department or government agency or a securities exchange (including the Australian Securities Exchange).

Rollover	No rollover
Required by	The <i>BB Reporting entity</i> for a <i>BB field interest</i>
Exemptions	Exemptions exist for <i>BB field's</i> located in the offshore area of the Northern Territory where: <ul style="list-style-type: none"> (a) Gas produced from the <i>BB field</i> is supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i>; or (b) In the case of a <i>BB field</i> that has not commenced production, the <i>field owner</i> expects on reasonable grounds that gas to be produced from the <i>BB field</i> will be supplied exclusively to an <i>LNG export facility</i> that is an <i>exempt NT facility</i>.

Notes

4.19.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Field Interest ID	FieldInterestId	The unique AEMO defined Part 18 Facility Identifier	Yes	Int	123456
Effective Date	EffectiveDate	The date the record takes effect	Yes	DateTime	2021-06-08
Developed Reserve 1P	DevelopedReserve1P	Estimate of BB Field Interest's 1P developed reserves (PJ)	Yes	Numeric(18,3)	123.456
Developed Reserve 2P	DevelopedReserve2P	Estimate of BB Field Interest's 2P developed reserves (PJ)	Yes	Numeric(18,3)	123.456
Developed Reserve 3P	DevelopedReserve3P	Estimate of BB Field Interest's 3P developed reserves (PJ)	Yes	Numeric(18,3)	123.456
Undeveloped Reserve 1P	UndevelopedReserve1P	Estimate of BB Field Interest's 1P undeveloped reserves (PJ)	Yes	Numeric(18,3)	123.456
Undeveloped Reserve 2P	UndevelopedReserve2P	Estimate of BB Field Interest's 2P undeveloped reserves (PJ)	Yes	Numeric(18,3)	123.456
Undeveloped Reserve 3P	UndevelopedReserve3P	Estimate of BB Field Interest's 3P undeveloped reserves (PJ)	Yes	Numeric(18,3)	123.456
Resources 2C	Resources2C	Estimate of BB Field Interest's 2C resources (PJ)	Yes	Numeric(18,3)	123.456
Production Change Reserve 2P	ProductionChangeReserve2P	Estimate of the total movement in the BB field interest's 2P reserves due to production of gas (PJ)	Yes	Numeric(18,3)	-123.456

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Proved Area Extension Reserve 2P	ProvedAreaExtensionReserve2P	Estimate of the total movement in the BB field interest's 2P reserves due to the extension of a field's proved area (PJ)	Yes	Numeric(18,3)	123.456
Percentage Change Reserve 2P	PercentageChangeReserve2P	Estimate of the total movement in the BB field interest's 2P reserves due to a percentage change in the BB field interest (PJ)	Yes	Numeric(10,3)	123.456
Upward Revision From 3P Reserve To 2P	UpwardRevisionFrom3PReserveTo2P	Estimate of the total movement in the BB field interest's 2P reserves due to the reclassification of 3P reserves or resources to 2P reserves (PJ)	Yes	Numeric(18,3)	123.456
Downward Revision From 2P Reserve To 3P	DownwardRevisionFrom2PReserveTo3P	Estimate of the total movement in the BB field interest's 2P reserves due to the reclassification of 2P reserves to 3P reserves or resources (PJ)	Yes	Numeric(18,3)	-123.456
Other Revisions Reserve 2P	OtherRevisionsReserve2P	Estimate of the total movement in the BB field interest's 2P reserves due to other revisions (PJ)	Yes	Numeric(18,3)	123.456
Maturity Sub Class 2P	MaturitySubClass2P	The project maturity sub-class for the 2P reserves classified in accordance with SPE-PRMS	Yes	Varchar(100)	Eg: On production, Approved for development, Justified for development
Maturity Sub Class 2C	MaturitySubClass2C	The project maturity sub-class for the 2C resources classified in accordance with SPE-PRMS	Yes	Varchar(100)	Eg: Development pending, Development on hold, Development unclarified, Development not viable
Min Date 2P	MinDate2P	The earliest estimate for the production of the 2P reserves	Yes	Datetime	2022-10-01
Max Date 2P	MaxDate2P	The latest estimate for the production of the 2P reserves	Yes	Datetime	2022-12-01
Min Date 2C	MinDate2C	The earliest estimate for the production of the 2C reserves	Yes	Datetime	2022-10-01
Max Date 2C	MaxDate2C	The latest estimate for the production of the 2C reserves	Yes	Datetime	2022-12-01
Expected Barriers 2C	ExpectedBarriers2C	The list of any barriers to commercial recovery of the 2C resources	Yes	Varchar(400)	Price Forecast
Increase Reserve Estimate Price 2P	IncreaseReserveEstimatePrice2P	Estimate of the change in the 2P reserves estimate arising from a 10% increase in the gas price assumptions used to prepare the estimate (PJ)	Yes	Numeric(18,3)	1.234

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Decrease Reserve Estimate Price 2P	DecreaseReserveEstimatePrice 2P	Estimate of the change in the 2P reserves estimate arising from a 10% decrease in the gas price assumptions used to prepare the estimate (PJ)	Yes	Numeric(18,3)	-1.234
Resources Estimate Method	ResourcesEstimateMethod	The resources assessment method used to prepare the reserves and resources estimates using categories in SPE-PRMS	Yes	Varchar(200)	Eg: Deterministic, Geostatistical and probabilistic
Conversion Factor Qty TCF To PJ	ConversionFactorQtyTCFToPJ	The conversion factor used to convert quantities measured in trillions of cubic feet to PJ	Yes	Numeric(18,3)	909.000
Economic Assumption	EconomicAssumption	The key economic assumptions in the forecast case used to prepare the reserves and resources estimates and the source of the assumptions	Yes	Varchar(400)	Gas price of \$10
Update Reason	UpdateReason	The reason for the update	Yes	Varchar(400)	Annual Update
Prepared By	PreparedBy	The name of the qualified gas industry professional who prepared, or supervised the preparation of the reserves and resources estimates	Yes	Varchar(100)	Joe Brown
Preparation Independence Statement	PreparationIndependenceStatement	Whether the qualified gas industry professional who prepared, or supervised the preparation of reserves and resources estimates is independent of the BB reporting entity	Yes	Varchar(3)	YES; NO

4.19.2 Requirements

- MaturitySubClass2P, MaturitySubClass2C, MinDate2P, MaxDate2P, MinDate2C, MaxDate2C and ExpectedBarriers2C are only required where the sum of 2P reserves and 2C resources in the BB field is greater than 50 PJ
- If submitting for the first time, enter 0 for the following fields: ProductionChangeReserve2P; ProvedAreaExtensionReserve2P; PercentageChangeReserve2P; UpwardRevisionFrom3PReserveTo2P; DownwardRevisionFrom2PReserveTo3P; OtherRevisionsReserve2P
- All fields are mandatory
- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.19.3 Validation Rules

- FieldInterestId must be a registered FieldInterestId
- Submissions must only contain FieldInterestId's for which the submitter is the Responsible Participant
- DevelopedReserve1P must be >= zero

- DevelopedReserve2P must be \geq zero
- DevelopedReserve3P must be \geq zero
- UndevelopedReserve1P must be \geq zero
- UndevelopedReserve2P must be \geq zero
- UndevelopedReserve3P must be \geq zero
- Resources2C must be \geq zero
- ProductionChangeReserve2P must be \leq zero
- ProvedAreaExtensionReserve2P must be \geq zero
- UpwardRevisionFrom3PReserveTo2P must be \geq zero
- DownwardRevisionFrom2PReserveTo3P must be \leq zero
- ConversionFactorQtyTCFToPJ must be $>$ zero
- PreparationIndependenceStatement must be either 'YES' or 'NO'

4.20 Facility Development

Transaction name	FACILITY_DEVELOPMENT
Purpose	To provide information on <i>facility development projects</i>
Submission frequency	Submission required on registration of the <i>facility development project</i> , annually, by the date specified in the BB Procedures and whenever the information is no longer accurate.
Rollover	None
Required by	The <i>BB reporting entity</i> for the <i>facility development project</i>
Exemptions	
Notes	

4.20.1 Data elements and fields

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
Development Facility ID	DevFacilityID	The unique AEMO defined Development Facility Identifier	Yes	Int	123456
Effective Date	EffectiveDate	The date the changes take effect	Yes	Datetime	2023-12-01
Proposed Name	ProposedName	The proposed name of the facility development	No	Varchar(100)	Austral LNG
Capacity From	CapacityFrom	The lower estimate of Nameplate Capacity. For LNG import terminals, how much gas can be delivered to a pipeline on a day (TJ/day). For LNG Export terminals, how much gas can	Yes	Numeric(18,3)	500.365

Data	Data field name	Description	Mandatory	Data type	Example / Allowed values
		be received from a pipeline on a day (TJ/day). For Storage facilities, how much gas it can hold in storage (TJ). For Production facilities, how much gas can be delivered to a pipeline on a day (TJ/day). For a Large User, how much gas can be received from a pipeline on a day (TJ/day). For a pipeline, the maximum amount that can flow through the pipeline in the primary forward haul direction of the pipeline on a day (TJ/day).			
Capacity To	CapacityTo	The lower estimate of Nameplate Capacity. For LNG import terminals, how much gas can be delivered to a pipeline on a day (TJ/day). For LNG Export terminals, how much gas can be received from a pipeline on a day (TJ/day). For Storage facilities, how much gas it can hold in storage (TJ). For Production facilities, how much gas can be delivered to a pipeline on a day (TJ/day). For a Large User, how much gas can be received from a pipeline on a day (TJ/day). For a pipeline, the maximum amount that can flow through the pipeline in the primary forward haul direction of the pipeline on a day (TJ/day).	Yes	Numeric(18,3)	600.365
Planned Commission From	PlannedCommissionFrom	The date commissioning is expected to start	Yes	Datetime	2023-12
Planned Commission To	PlannedCommissionTo	The date commissioning is expected to finish	Yes	Datetime	2024-03
Development Stage	DevelopmentStage	The BB reporting entity's assessment of the stage of development of the facility development project. Must be one of; PROPOSED; COMMITTED; CANCELLED; ENDED	Yes	Varchar(200)	PROPOSED; COMMITTED; CANCELLED; ENDED
Location	Location	The location of the facility	Yes	Varchar(200)	Sydney
Comments	Comments	Provide additional comments about the facility such as whether a pipeline is bidirectional, or proposed nameplate capacities where there are more than one (for a storage facility provide maximum receipt and delivery quantities. For pipeline provide information on any backhaul capacity if relevant)	No	Varchar(400)	Backhaul capacity will be 24TJ/day
Related Facility ID	RelatedFacilityId	Any facilities which are related to the development facility	No	Int	123456

4.20.2 Requirements

- When entering a new submission with an earlier effective date than a previous submission, participant must update all future records as these records will apply on their effective date

4.20.3 Validation Rules

- DevelopmentFacilityID must be a registered DevelopmentFacilityID
- Submissions must only contain Development Facility ID's for which the submitter is the Reporting Entity
- CapacityFrom and CapacityTo must be submitted in TJs accurate to three decimal places
- DevelopmentStage must be one of PROPOSED, COMMITTED, CANCELLED or ENDED
- DevelopmentStage input is case sensitive
- CapacityFrom must be greater than or equal to 0
- CapacityTo must be greater than or equal to 0

A1. Data Submission

This Appendix describes how to submit and validate transaction data using:

- MarketNet

A1.1 System requirements

Submitting data over MarketNet requires:

- Access credentials to MarketNet. Access is provided during registration.
- Participant user access rights provided by your company's participant administrator.
- Internet access (MarketNet connection is required).

A1.2 CSV Format

. Details and examples of transaction data in CSV format are provided in transaction specifications. See A1.3.

A comma in a free text field (such as Capacity Description and Description) is treated as a value separator in the validation process and results in validation errors. To prevent this validation error, exclude commas in the description, or enclose the description with commas in double quotes "".

Filename convention

BB submitted CSV files must conform to the following naming convention:

[COMPID]_[TRANSACTIONNAME]_[CCYYMMDDHHMMSS].CSV

The format of each filename component is:

Name part	Description	Format
COMPID	The relevant gas company identifier of the <i>BB reporting entity</i> as allocated by AEMO during the registration process.	Text
TRANSACTIONNAME	The name of the transaction to which the CSV file is supplied, with no white spaces. The list of possible transaction names is: <ul style="list-style-type: none"> • SHORT_TERM_CAPACITY_OUTLOOK • DAILY_PRODUCTION_AND_FLOW • DAILY_STORAGE • NOMINATIONS_AND_FORECASTS • GS_NAMEPLATE_RATING • CP_NAMEPLATE_RATING • LINEPACK_CAPACITY_ADEQUACY • MEDIUM_TERM_CAPACITY_OUTLOOK • SECONDARY_BID_OFFER_SUMMARY • SECONDARY_TRADE_SUMMARY • NAMEPLATE_RATING • UNCONTRACTED_CAPACITY_OUTLOOK 	Text
CCYYMMDDHHMMSS	Date/time stamp in the format CCYYMMDDHHmmSS when the file has been generated, 24-hour format, local time.	Datetime (CCYYMMDDhhmmss)
CSV	The file extension of "CSV", separated from the file name with a period "."	

For example, a filename for a linepack capacity adequacy transaction generated on the 2018-09-01 at 13:15:00 by the *BB reporting entity* with a company identifier of 123 is:

```
123_LINEPACK_CAPACITY_ADEQUACY_20180901131500.CSV
```

A1.3 Uploading a file using MarketNet

To find out more about:

- How to submit data using CSV
- How to view Nominations and Forecasts data

Refer to the [AEMO Guide To Information Systems](#).

A1.4 Transaction acknowledgment

A1.4.1 MarketNet

- If the uploaded CSV transaction file passes all validations, the file is accepted and a success message is displayed.
- If at least one record in the submitted CSV transaction file fails validation, then the file is rejected and an error message is displayed.

A2. RESTful web services data submission

You can submit transaction data in a RESTful style by a HTTPS POST request to BB submission URLs. To use the RESTful interface through HTTPS, AEMO's web services are accessed through a MarketNet connection.

A2.1 API Web Portal

The AEMO API Web Portal provides information to implement your APIs and includes documentation, examples, code samples, and API policies:

- Pre-production environment:
`https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/{resourceName}`
- Production environment:
`https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}`

For detailed information on accessing the e-Hub (API Web Portal and API Gateway), and using the API Portal, see the [Guide to AEMO's e-Hub APIs](#).

A2.2 System Requirements

API Web Portal

- MarketNet or internet connection. For more information about MarketNet, see [Guide to Information Systems](#).
- User ID and password.

API Gateway

- Access to MarketNet.
- An application to Base64 encode your User Rights Management (URM) username and password for authorisation. Provided by your Participant Administrator.
- Authentication using an SSL digital certificate which contains a:
 - Digitally signed certificate: A digital certificate provided by the participant that is digitally signed by AEMO.
 - E-Hub public certificate: AEMO's public key certificate.
 - Root certificate: Public key certificate that identifies the root certificate authority (CA).
 - For more information on how to obtain these certificates, see "SSL certificates" in the Guide to AEMO's e-Hub APIs.

Access to production and pre-production APIs require different SSL certificates.

A2.3 HTTPS POST request format

A HTTPS POST request consists of:

- HTTPS request header attributes as shown in the following table.
- Request body which contains the submission data in JSON objects and properties. It must only contain the content of a single transaction type.

A2.3.1 HTTPS request header attributes

Header parameter	Description	Allowed values / Example
Content-Type	HTTPS request format.	Content-type: application/json
Accept	HTTPS response format.	Accept: application/json
Content-Length	Content length of file. The value is populated when the request is sent.	Content-length: nnn
X-initiatingParticipantID	The participant ID	X-initiatingParticipantID: 123456
X-market	The market type that the request applies.	X-market: GAS
Authorization	Specifies basic HTTP authentication containing the Base64[1] encoded username and password. The participant's URM username and password are concatenated with a colon separator and then Base64 encoded.	Authorization: Basic QFhQVC0wMDAwMzoyZWRmOGJhYS0wY2I0LTQwZjctOTIyMS0yODUxNmM4N2MxNjQ= (For URM username "@XPT-00003" and password "2edf8baa-0cb4-40f7-9221-28516c87c164")

An example of a Daily Storage HTTPS POST request is shown below.

- POST request URL: TBC
- Participant ID: 123456

OTHER HEADER INFORMATION TBC

```
Content-type: application/json
Accept: application/json
Content-length: nnn
Authorization: Basic QFhQVC0wMDAwMzoyZWRmOGJhYS0wY2I0LTQwZjctOTIyMS0yODUxNmM4N2MxNjQ=
X-initiatingParticipantID: 123456
X-market: GAS

{
  "ItemList": [
    {
      "GasDate": "2018-12-01T00:00:00",
      "FacilityId": 530038,
      "ActualQuantity": 200.861
    }
  ]
}
```

The JSON body properties for transaction POST requests is shown in the AEMO API portal > API Gallery > Gas Bulletin Board and the transaction specifications.

A swagger file can also be downloaded from AEMO API portal > API Gallery > Gas Bulletin Board > API documents which contains RESTful API specification for BB data submissions.

For NIL quality, you can use "null" for the property value, or alternatively excluding the data property in the submission automatically sets the property to null.

A2.4 Submission URLs

A data submission must be a HTTPS POST request to a valid BB submission URL. Each transaction type has a unique submission URL as shown in the following table.

The URLs for reports share a common base URL format. The format of the base URL is shown below.

Market Facing Internet web service host

`https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}`

`https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/{resourceName}`

Market Facing MarketNet web service host

`https://apis.preprod.marketnet.net.au:9319/ws/gbb/submission/v1/{resourceName}`

`https://apis.prod.marketnet.net.au:9319/ws/gbb/submission/v1/{resourceName}`

Notes:

- Participants can use either service (Internet or MarketNet) to submit data. For example, if you use MarketNet instead of the Internet service, substitute `https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/reportName` with `https://apis.preprod.marketnet.net.au:9319/ws/gbb/submission/v1/reportName`
- Submission URLs are case-sensitive. Resource Name is always camelCase.

A2.4.1 URLs for submitting transaction data

Transaction Type	URL
Daily Production and Flow	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/dailyProductionAndFlow</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/dailyProductionAndFlow</code>)
Connection Point Nameplate Rating	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/connectionPointNameplateRating</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/connectionPointNameplateRating</code>)
Linepack Capacity Adequacy	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/linepackCapacityAdequacy</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/linepackCapacityAdequacy</code>)
Medium Term Capacity Outlook	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/mediumTermCapacityOutlook</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/mediumTermCapacityOutlook</code>)
Nameplate Rating	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/nameplateRating</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/nameplateRating</code>)
Nomination and Forecasts	BB pre-production server: (<code>https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/nominationsAndForecasts</code>) BB production server: (<code>https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/nominationsAndForecasts</code>)

Transaction Type	URL
Uncontracted Capacity Outlook	BB pre-production server: (https://apis.preprod.aemo.com.au:9319/ws/gbb/submission/v1/uncontractedCapacityOutlook) BB production server: (https://apis.prod.aemo.com.au:9319/ws/gbb/submission/v1/uncontractedCapacityOutlook)

Transaction data is only accepted by the system if **all** data passes validations.

A2.5 HTTPS response format

The submission response from the server consists of two parts: the response status code and the response body. The response status codes returned by the GBB are shown in the following table.

A2.5.1 Response Codes

Code	Response body	Data condition	Description
200	OK	Successful request.	Successful request.
400	{ "Fault": "<SystemMessageExceptionDump>" }	The service cannot be found for the endpoint reference (EPR) <URI>	The service cannot be found for the endpoint reference (EPR) <URI>
401	{ "Exception": "Unauthorized:Invalid UserName or Password" }	Invalid credentials.	Invalid credentials, or no username or password in the HTTP request header.
404	{ "Exception": "Resources for the endpoint URI not found. Endpoint URI: <Resource>" }	Resource not found.	Not found
405	{ "Exception": "Input request HTTP method is <Invalid Method passed> but operation <Resource Name> accepts only: [<Valid Method>]" }	Invalid Method used (e.g. GET used instead of POST)	Method Not Allowed

Code	Response body	Data condition	Description
422	TBC	Business validation failure	Unprocessable entity.
500	{ "Exception": "Application Unavailable" }	e-Hub is operational but downstream systems are not available.	Application Unavailable
503	{ "Exception": "Service invocation for API was rejected based on policy violation" }	Exceeds throttling limits	Service invocation for API was rejected based on policy violation
	Error message: javax.net.ssl.SSLHandshake Exception: Received fatal alert: bad_certificate	SSL Certificate authentication validation failed	

The server returns a Content-Type of application/json, and a JSON formatted string consisting of two fields: status and error.

A2.5.2 Response fields

Field	Data Type	Description
Data	Object	This data object contains all the results of the submission. The properties of the data object are dependent on the service call.

An example of a successful submission response is shown below:

```
{
  "data": {},
  "errors": null
}
```

An example of an unsuccessful submission with HTTP response code 422 is shown below. A transaction error code is shown with details of the error.

```
{
  {
    "data": {},
    "errors": [
      {
        "code": 73,
        "title": "InvalidBuySell",
        "detail": "BuySell value 24.1 is not valid",
        "source": null
      }
    ]
  }
}
```

For a complete list of transaction code errors, see Appendix A5.

A3. Data Submission Examples

A3.1 Short Term Capacity Outlook

A3.1.1 Example 1

The following example shows a Short Term Capacity Outlook intra-day data submission for a *BB pipeline* NSW-Victoria Interconnect. This is an amendment to D+5 of submission period 2018-09-02 to 2018-09-08 due to unplanned maintenance on the Eurora Compressor Station.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data and does not include header file information.

- Submission for 2018-09-06 (D+5).
- A nominated and forecast flow submission for a *BB pipeline* (520047).
- A *BB pipeline* has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity  
Description, ReceiptLocation, DeliveryLocation, Description  
2018-09-06, 520047, MDQ, 170.1, , This transmission capacity is the amount of gas that the  
Culcairn delivery point is able to withdraw from this pipeline facility. This  
capacity is dependent on the forecast DTS demand and the availability of key assets  
on this pipeline facility, 1200001, 1200004, Capacity reduced due to unplanned  
maintenance of Euroa Compressor Station
```

JSON file format

```
{  
  "ItemList": [  
    {  
      "GasDate": "2018-09-06T00:00:00+10:00",  
      "FacilityId": 520047,  
      "CapacityType": "MDQ",  
      "OutlookQuantity": 170.1,  
      "FlowDirection": null  
      "CapacityDescription": "This transmission capacity is the amount of gas that  
the Culcairn delivery point is able to withdraw from this pipeline facility. This  
capacity is dependent on the forecast DTS demand and the availability of key assets  
on this pipeline facility",  
      "ReceiptLocation": 1200001,  
      "DeliveryLocation": 1300004,  
      "Description": "Capacity reduced due to unplanned maintenance of Euroa  
Compressor Station"  
    }  
  ]  
}
```

```
]
}
```

A3.1.2 Example 2

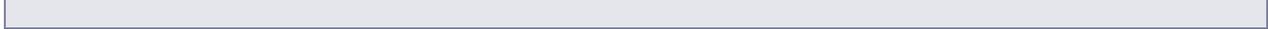
The following example shows a Short Term Capacity Outlook data submission for a *BB pipeline* Longford to Melbourne. A *BB pipeline* has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2017-12-01 for 2017-12-02 (D+1) to 2017-12-08 (D+7).
- A nominated and forecast flow submission for a *BB pipeline* (530067).

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity
Description, ReceiptLocation, DeliveryLocation, Description
2017-12-02, 530067, MDQ, 1030.525, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to Melbourne
pipeline capacity constrained, expected to remain for 3 days"
2017-12-03, 530067, MDQ, 1020.938, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to Melbourne
pipeline capacity constrained, expected to remain for 3 days"
2017-12-04, 530067, MDQ, 1025.941, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to Melbourne
pipeline capacity constrained, expected to remain for 3 days"
2017-12-05, 530067, MDQ, 1023.856, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 1700001, 1300004, "Longford to Melbourne
pipeline capacity constrained, expected to remain for 3 days"
2017-12-06, 530067, MDQ, 1020.1, , "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant", 7200001, 1300004, "Longford to Melbourne
pipeline capacity constrained, expected to remain for 3 days"
2017-12-07, 530067, MDQ, 1023.350, , "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility", 1700001, 1300004, "Longford to Melbourne pipeline capacity
constrained, expected to remain for 3 days"
2017-12-08, 530067, MDQ, 1021.556, , "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility", 1700001, 1300004, "Longford to Melbourne pipeline capacity
constrained, expected to remain for 3 days"
```



JSON file format

```
{
  "ItemList": [
    {
      "GasDate": "2017-12-02T00:00:00+10:00",
      "FacilityId": 530067,
      "CapacityType": "MDQ",
      "OutlookQuantity": 1030.525,
      "FlowDirection": null
      "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
      "ReceiptLocation": 1700001,
      "DeliveryLocation": 1300004,
      "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days",
    }
  ],
  {
    "GasDate": "2017-12-03T00:00:00+10:00",
    "FacilityId": 530067,
    "CapacityType": "MDQ",
    "OutlookQuantity": 1020.938,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
    "ReceiptLocation": 1700001,
    "DeliveryLocation": 1300004,
    "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days",
  }
  {
    "GasDate": "2017-12-04T00:00:00+10:00",
    "FacilityId": 530067,
    "CapacityType": "MDQ",
    "OutlookQuantity": 1025.941,
```

```

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation": 1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

    {

    "GasDate": "2018-12-05T00:00:00+10:00",

    "FacilityId": 530067,

    "CapacityType": "MDQ",

    "OutlookQuantity": 1023.856,

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation": 1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

    {

    "GasDate": "2017-12-06T00:00:00+10:00",

    "FacilityId": 530067,

    "CapacityType": "MDQ",

    "OutlookQuantity": 1020.1,

    "FlowDirection": null,

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang
Lang receipt point are able to inject into this pipeline facility. This capacity is
limited by the maximum operating pressure of this pipeline facility and the maximum
injection pressure of the Longford Gas Plant",

    "ReceiptLocation":1700001,

    "DeliveryLocation": 1300004,

    "Description": "Longford to Melbourne pipeline capacity constrained, expected
to remain for 3 days",

    },

```

```

    {
      "GasDate": "2017-12-07T00:00:00+10:00",
      "FacilityId": 530067,
      "CapacityType": "MDQ",
      "OutlookQuantity": 1023.350,
      "FlowDirection": null,
      "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
      "ReceiptLocation": 1700001,
      "DeliveryLocation": 1300004,
      "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days",
    },
    {
      "GasDate": "2017-12-08T00:00:00+10:00",
      "FacilityId": 530067,
      "CapacityType": "MDQ",
      "OutlookQuantity": 1021.55,
      "FlowDirection": null,
      "CapacityDescription": "This transmission capacity is the amount of gas that the Longford receipt point, VicHub receipt point, TasHub receipt point and the Lang Lang receipt point are able to inject into this pipeline facility. This capacity is limited by the maximum operating pressure of this pipeline facility and the maximum injection pressure of the Longford Gas Plant",
      "ReceiptLocation": 1700001,
      "DeliveryLocation": 1300004,
      "Description": "Longford to Melbourne pipeline capacity constrained, expected to remain for 3 days"
    }
  ]
}

```

A3.1.3 Example 3

The following scenario shows a Short Term Capacity Outlook data submission for a *BB storage facility* LNG Storage Dandenong for gas withdrawn from the Victorian Declared Transmission System to top-up this storage facility. *BB storage facilities* are required to report capacity for receipts into, and deliveries from the *BB storage facility* as well as natural gas quantities that can be held in storage.

A CSV file format example is provided for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2018-10-14 for 2018-10-15 (D+1) to 2018-10-21 (D+7).
- A short term capacity submission for LNG Storage Dandenong (530020).
- A *BB storage facility* has a Capacity Type value "STORAGE". Flow direction, Capacity Description, Receipt Location and Delivery Location information are not required.
- A *BB storage facility* has a Capacity Type value "MDQ".

CSV file format

```
GasDate, FacilityId, CapacityType, OutlookQuantity, FlowDirection, Capacity
Description, ReceiptLocation, DeliveryLocation, Description
2018-10-15, 530020, STORAGE, , 237.525, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-15, 530020, MDQ, RECEIPT, , 150.321, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-15, 530020, MDQ, DELIVERY, , 37.601, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-16, 530020, STORAGE, , 300.961, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-16, 530020, MDQ, RECEIPT, , 135.901, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-16, 530020, MDQ, DELIVERY, , 126.781, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-17, 530020, STORAGE, , 240.961, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-17, 530020, MDQ, RECEIPT, , 130.805, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-17, 530020, MDQ, DELIVERY, , 160.729, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-18, 530020, STORAGE, , 238, , , , "one compressor unit under maintenance, expected
to return to service in 5 days"
2018-10-18, 530020, MDQ, RECEIPT, , 237.525, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-18, 530020, MDQ, DELIVERY, , 240.647, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-19, 530020, STORAGE, , 236.1, , , , "one compressor unit under maintenance, expected
to return to service in 5 days"
2018-10-19, 530020, MDQ, RECEIPT, , 236.189, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-19, 530020, MDQ, DELIVERY, , 240.665, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-20, 530020, STORAGE, , 235.35, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-20, 530020, MDQ, RECEIPT, , 235.792, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-20, 530020, MDQ, DELIVERY, , 234.15, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-21, 530020, STORAGE, , 236.556, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
2018-10-21, 530020, MDQ, RECEIPT, , 242, , , , "one compressor unit under maintenance,
expected to return to service in 5 days"
```

2018-10-21,530020,MDQ,DELIVERY,,239.185,,,, "one compressor unit under maintenance, expected to return to service in 5 days"

JSON file format

```
{
  "ItemList":[
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "STORAGE",
      "OutlookQuantity": 237.525,
      "FlowDirection": null,
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 150.321,
      "FlowDirection": "RECEIPT",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-10-15T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 37.601,
      "FlowDirection": "DELIVERY",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
    }
  ]
}
```

```

    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"

    },

    {

    "GasDate": "2018-10-16T00:00:00+10:00",

    "FacilityId": 530020,

    "CapacityType": "STORAGE",

    "OutlookQuantity": 300.961,

    "FlowDirection": null,

    "CapacityDescription": null,

    "ReceiptLocation": null,

    "DeliveryLocation": null,

    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"

    },

    {

    "GasDate": "2018-10-16T00:00:00+10:00",

    "FacilityId": 530020,

    "CapacityType": "MDQ",

    "OutlookQuantity": 135.961,

    "FlowDirection": "RECEIPT",

    "CapacityDescription": null,

    "ReceiptLocation": null,

    "DeliveryLocation": null,

    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"

    },

    {

    "GasDate": "2018-12-16T00:00:00+10:00",

    "FacilityId": 530020,

    "CapacityType": "MDQ",

    "OutlookQuantity": 126.781,

    "FlowDirection": "DELIVERY",

    "CapacityDescription": null,

    "ReceiptLocation": null,

    "DeliveryLocation": null,

    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"

```

```

    },
    {
      "GasDate": "2018-10-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "STORAGE",
      "OutlookQuantity": 240.961,
      "FlowDirection": null,
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-10-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 130.805,
      "FlowDirection": "RECEIPT",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {
      "GasDate": "2018-12-17T00:00:00+10:00",
      "FacilityId": 530020,
      "CapacityType": "MDQ",
      "OutlookQuantity": 160.729,
      "FlowDirection": "DELIVERY",
      "CapacityDescription": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
    },
    {

```

```

    "GasDate": "2018-10-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 238,
    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 237.525,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-18T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 240.647,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-19T00:00:00+10:00",
    "FacilityId": 530020,

```

```

    "CapacityType": "STORAGE",
    "OutlookQuantity": 236.1,
    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-19T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 236.189,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-19T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 240.665,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": null
  },
  {
    "GasDate": "2018-10-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 235.35,

```

```

    "FlowDirection": null,
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 235.792,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-20T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 234.15,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "STORAGE",
    "OutlookQuantity": 236.556,
    "FlowDirection": null,
    "CapacityDescription": null,

```

```

    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-10-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 242,
    "FlowDirection": "RECEIPT",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  },
  {
    "GasDate": "2018-12-21T00:00:00+10:00",
    "FacilityId": 530020,
    "CapacityType": "MDQ",
    "OutlookQuantity": 239.185,
    "FlowDirection": "DELIVERY",
    "CapacityDescription": null,
    "ReceiptLocation": null,
    "DeliveryLocation": null,
    "Description": "one compressor unit under maintenance, expected to return to
service in 5 days"
  }
]
}

```

A3.2 Daily Production Flow

The following scenarios show the Daily Production and Flow data submissions in a CSV file format for BB website upload, and JSON file format for HTTP web services.

A3.2.1 Example 1

Example 1 is a Daily Production and Flow data submission for three connection points.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- Daily actual flow for a *BB pipeline* 520047.
- Connection Points:
 - Connection Point 1201001 with Storage Facility 520068.
 - Connection Point 1201002 with Production Facility 520070.
 - Connection Point 1201003 with Pipeline 530015.

CSV file example

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, ActualQuantity, Quality
2018-08-31, 520047, 1201001, DELIVERY, 25.525, OK
2018-08-31, 520047, 1201001, RECEIPT, 0.345, OK
2018-08-31, 520047, 1201002, RECEIPT, 15.513, OK
2018-08-31, 520047, 1201003, RECEIPT, 12.221, OK
```

JSON format example

```
{
  "ItemList": [
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201001,
      "ActualQuantity": 25.525,
      "Quality": "OK",
      "FlowDirection": "DELIVERY"
    },
    {
      "GasDate": "2017-12-01T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201001,
      "ActualQuantity": 0.345,
      "Quality": "OK",
      "FlowDirection": "RECEIPT"
    },
    {
      "GasDate": "2017-12-01T00:00:00",
      "FacilityId": 520047,
      "ConnectionPointId": 1201002,
```

```
    "ActualQuantity": 15.513,  
    "Quality": "OK",  
    "FlowDirection": "RECEIPT"  
  },  
  {  
    "GasDate": "2017-12-01T00:00:00",  
    "FacilityId": 530038,  
    "ConnectionPointId": 1201003,  
    "ActualQuantity": 12.221,  
    "Quality": "OK",  
    "FlowDirection": "RECEIPT"  
  }  
]  
}
```

A3.2.2 Example 2

Example 2 is a data submission that includes a connection point in the delivery flow direction that was not operational. Hence, gas flow could not be measured resulting in a "NIL" Quality value and null Actual Quantity value.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- Daily actual flow for a BB Storage Facility 520068.
- Connection Point 1201001 with Pipeline 520047.

CSV file example

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, ActualQuantity, Quality
2018-08-31, 520068, , RECEIPT, 25.525, OK
2018-08-31, 520068, , DELIVERY, , NIL
```

JSON format example

```
{
  "ItemList": [
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520068,
      "ConnectionPointId": null,
      "ActualQuantity": 25.525,
      "Quality": "OK",
      "FlowDirection": "RECEIPT"
    },
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520068,
      "ConnectionPointId": null,
      "ActualQuantity": null,
      "Quality": "NIL",
      "FlowDirection": "DELIVERY"
    }
  ]
}
```

A3.3 Daily Storage

A3.3.1 Example 1

The following example shows the Daily Storage data submission in a CSV file format for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-08-31 (D-1).
- *BB storage facility 520047.*

CSV file example

```
FacilityId, GasDate, ActualQuantity, CushionGasQuantity
520047, 2018-08-31, 158.335, 200.232
520047, 2018-08-31, 160.753, 222.2
520047, 2018-08-31, 199.324, 225.252
```

JSON file example

```
{
  "ItemList": [
    {
      "GasDate": "2018-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 158.335,
      "CushionGasQuantity": 200.232
    },
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 160.753,
      "CushionGasQuantity": 222.2
    },
    {
      "GasDate": "2017-08-31T00:00:00",
      "FacilityId": 520047,
      "ActualQuantity": 199.324,
      "CushionGasQuantity": 225.252
    }
  ]
}
```

A3.4 Connection Point Nameplate Rating

A3.4.1 Example 1

The following example shows a Connection Point Nameplate Rating data submission. A CSV file format example is provided for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-08-06.
- Connection Point 1301002.

CSV file format

```
ConnectionPointId,CapacityQuantity,EffectiveDate,Description
1301002,201.65,2018-08-06,
1301003,200.783,2018-08-06,
```

JSON format example

```
{
  "ItemList": [
    {
      "ConnectionPointId": "1301002",
      "CapacityQuantity": 201.65,
      "EffectiveDate": 2018-08-06,
      "Description": null
    },
    {
      "ConnectionPointId": "1301003",
      "CapacityQuantity": 200.783,
      "EffectiveDate": 2018-08-06,
      "Description": null
    }
  ]
}
```

A3.5 Linepack Capacity Adequacy

A3.5.1 Example 1

The following scenarios is a LCA data submission for the Eastern pipeline.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-09-01 for 2018-09-03.
- *BB pipeline* 520061.

CSV file example

```
GasDate, FacilityId, Flag, Description
2018-09-01, 520061, GREEN, All ok
2018-09-02, 520061, GREEN, All ok
2018-09-03, 520061, GREEN, All ok
```

JSON file example

```
{
  "ItemList": [
    {
```

```
    "GasDate": "2018-09-01T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  },
  {
    "GasDate": "2018-09-02T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  },
  {
    "GasDate": "2018-09-03T00:00:00",
    "FacilityId": 520061,
    "Flag": GREEN
    "Description": "All ok"
  }
]
}
```

A3.5.2 Example 2

The following scenarios is an intra-day LCA data submission for a BB pipeline that has an unplanned outage. A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Company Id is 100
- Submission date is 2018-09-01 for 2018-09-01 (D-1).
- *BB pipeline 520052.*

CSV file example

```
GasDate, FacilityId, Flag, Description
2018-09-01, 550052, AMBER, Unplanned outage on the Berwyndale to Wallumbilla Pipeline
```

JSON file example

```
{
  "CompanyId": 100,
  "ItemList": [
    {
      "GasDate": "2018-09-01T00:00:00",
      "FacilityId": 550052,
```

```

    "Flag": "AMBER",
    "Description": "Unplanned outage on the Berwyndale to Wallumbilla Pipeline"
  }
]
}

```

A3.6 Medium Term Capacity Outlook

A3.6.1 Example 1

A Medium Term Capacity Outlook data submission replaces all existing Medium Term Capacity Outlook data records for a facility where the start date is on or after the current gas day.

Active Medium Term Capacity Outlook data (where the start date is before the current gas day and the end date is on or after the current gas day) is end dated to the current gas date D-1.

You can delete all existing Medium Term Capacity Outlook data records for a facility by making a submission with the Facility Id and blank values for the remaining fields. All Medium Term Capacity Outlook data records are deleted for the specified facility where the start date is on or after the current gas day, and also end date any active Medium Term Capacity Outlook data.

Historical records where the Medium Term Capacity Outlook end date is before the current gas day cannot be modified or deleted.

The following example illustrates the system behaviour for a Medium Term Capacity Outlook data submission.

Initial state

Medium Term Capacity Outlook submission 1: 14-17 April

Medium Term Capacity Outlook submission 2: 18-23 April

Medium Term Capacity Outlook submission 3: 24-28 April

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr	
MTCO 1															
				MTCO 2											
										MTCO 3					

File submissions with updated data

Medium Term Capacity Outlook submission 4: 21-24 April

Medium Term Capacity Outlook submission 5: 27-28 April

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
							MTCO 4							
													MTCO 5	

End state after the file submission

Medium Term Capacity Outlook submission 1: 14-17 April

Medium Term Capacity Outlook submission 2: 18-20 April

Medium Term Capacity Outlook submission 4: 21-24 April

Medium Term Capacity Outlook submission 5: 27-28 April

25-26 April does not have Medium Term Capacity Outlook data, so the facility's capacity is defined by its Nameplate Rating.

14-Apr	15-Apr	16-Apr	17-Apr	18-Apr	19-Apr	20-Apr	21-Apr	22-Apr	23-Apr	24-Apr	25-Apr	26-Apr	27-Apr	28-Apr
MTCO 1														
				MTCO 2										
							MTCO 4							
													MTCO 5	

Where multiple capacity types apply to an individual facility, then all details must be provided. This data is used in the Medium Term Capacity Outlook report.

A3.6.2 Example 2 (submission format)

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission for a BB pipeline (520066).
- A BB pipeline has a Capacity Type value "MDQ", and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```
FacilityId,FromGasDate,ToGasDate,CapacityType,OutlookQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,Description
540066,2018-06-22,2018-06-30,MDQ,100.522,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Corrective maintenance requiring reduction of operating pressure
540066,2018-06-22,2018-06-30,MDQ,67.801,,This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Reversal of previous entry
540066,2018-08-01,2018-08-10,MDQ,56.764,, This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility,1200001,1300004,Gas Conditioning Vessel Filter Install
```

JSON format

```
{
  "ItemList": [
    {
      "FromGasDate": "2018-06-22T00:00:00+10:00",
      "ToGasDate": "2018-06-30T00:00:00+10:00",
      "FacilityId": 540066,
      "CapacityType": "MDQ",
      "OutlookQuantity": 100.522,
      "FlowDirection": null
      "CapacityDescription": "This transmission capacity is the amount of gas that the Culcairn delivery point is able to withdraw from this pipeline facility. This capacity is dependent on the forecast DTS demand and the availability of key assets on this pipeline facility",
      "ReceiptLocation": 1200001,
    }
  ]
}
```

```

    "DeliveryLocation": 1300004,
    "Description": "Corrective maintenance requiring reduction of operating
pressure"
  },
  {
    "FromGasDate": "2018-06-22T00:00:00+10:00",
    "ToGasDate": "2018-06-30T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Reversal of previous entry"
  },
  {
    "FromGasDate": "2018-08-02T00:00:00+10:00",
    "ToGasDate": "2018-08-10T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Reversal of previous entry"
  },
  {
    "FromGasDate": "2018-06-22T00:00:00+10:00",
    "ToGasDate": "2018-06-22T00:00:00+10:00",
    "FacilityId": 540066,
    "CapacityType": "MDQ",
    "OutlookQuantity": 56.764,

```

```

    "FlowDirection": null

    "CapacityDescription": "This transmission capacity is the amount of gas that
the Culcairn delivery point is able to withdraw from this pipeline facility. This
capacity is dependent on the forecast DTS demand and the availability of key assets
on this pipeline facility",

    "ReceiptLocation": 1200001,

    "DeliveryLocation": 1300004,

    "Description": "Gas Conditioning Vessel Filter Install"

}

]

}

```

A3.7 Nameplate Rating

A3.7.1 Example 1

The following scenario shows a nameplate data submission for *BB pipelines* due to changes in standing capacities. A CSV file format example is provided for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date is 2018-06-23.
- A nameplate submission for a BB pipelines (540043 and 540073)

CSV file format

```

FacilityId,CapacityType,CapacityQuantity,FlowDirection,CapacityDescription,ReceiptLoc
ation,DeliveryLocation,EffectiveDate,Description
540043,MDQ,223.01,,This transmission capacity is the amount of gas that the Culcairn
Delivery Location is able to withdraw from this pipeline
facility.,1300502,1300405,2018-06-23,increase in nameplate pipeline capacity due to
completion of VNIE Phase B
540073,MDQ,220.96,,This transmission capacity is the amount of gas that the Longford
Receipt Location and VicHub Receipt Location and TasHub Receipt Location and the Lang
Lang Receipt Location are able to inject into this pipeline facility. This capacity
is limited by the maximum operating pressure of this pipeline facility and the
maximum injection pressure of the Longford Gas Plant,1500061,1500110,2018-06-
23,increased pipeline capacity due to new the commissioning of a new compressor
facility

```

JSON format example

```

{

  "ItemList": [

    {

      "FacilityId": 5400067,

      "CapacityType": "MDQ",

      "CapacityQuantity": 223.01,

```

```

    "FlowDirection": null,
    "Capacity Description": "This transmission capacity is the amount of gas that
the Culcairn Delivery Location is able to withdraw from this pipeline facility",
    "ReceiptLocation": "1300502",
    "DeliveryLocation": "1300405",
    "EffectiveDate": "2018-06-23T00:00:00+10:00",
    "Description": "increase in nameplate pipeline capacity due to completion of
VNIE Phase B"
  },
  {
    "FacilityId": 5200073,
    "CapacityType": "MDQ",
    "CapacityQuantity": 220.96,
    "FlowDirection": null,
    "Capacity Description": "This transmission capacity is the amount of gas that
the Longford Receipt Location and VicHub Receipt Location and TasHub Receipt Location
and the Lang Lang Receipt Location are able to inject into this pipeline facility.
This capacity is limited by the maximum operating pressure of this pipeline facility
and the maximum injection pressure of the Longford Gas Plant",
    "ReceiptLocation": 1500061,
    "DeliveryLocation": 1500110,
    "EffectiveDate": "2018-06-23T00:00:00+10:00",
    "Description": "Increased pipeline capacity due to new the commissioning of a
new compressor facility"
  }
]
}

```

A3.7.2 Example 2

The following scenario shows a nameplate data submission for Silver Springs, a storage facility.

The facility has STORAGE Capacity Type value, therefore Flow Direction, Capacity Description, Receipt Location, and Delivery Location information are not required.

A CSV file format example is provided for BB website upload, and JSON file format for HTTP web services. The JSON file example only illustrates information relating to the transaction data, and does not include header file information.

CSV file format

```

FacilityId,CapacityType,CapacityQuantity,FlowDirection,CapacityDescription,ReceiptLoc
ation,DeliveryLocation,EffectiveDate,Description
540062,STORAGE,330.60,,,,,2018-06-23,New storage tank added to facility

```

JSON file example

```
{
  "CompanyId": 100,
  "ItemList": [
    {
      "FacilityId": 540062,
      "CapacityType": "STORAGE",
      "CapacityQuantity": 330.60,
      "FlowDirection": null,
      "Capacity Description": null,
      "ReceiptLocation": null,
      "DeliveryLocation": null,
      "EffectiveDate": "2018-06-23T00:00:00+10:00",
      "Description": "New storage tank added to facility"
    }
  ]
}
```

A3.8 Nominations and Forecasts

A3.8.1 Example 1

The following scenario shows a Nominations and Forecasts data submission for a *BB pipeline and gate station*. A CSV file format example is provided for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission date 2018-09-01 for 2018-09-02 (D+1) to 2018-09-07 (D+6).
- A nominated and forecast flow submission for a *BB pipeline* (520047).
- Connection Points:
 - Connection Point 1201001 with Pipeline 530015.
 - Connection Point 1201002 with a Gate Station.

CSV file format

```
GasDate, FacilityId, ConnectionPointId, FlowDirection, NominationQuantity
2018-09-02, 520047, 1201001, DELIVERY, 25.525
2018-09-02, 520047, 1201001, RECEIPT, 20.21
2018-09-02, 520047, 1201002, DELIVERY, 15.513
2018-09-02, 520047, 1201002, RECEIPT, 25.23
2018-09-03, 520047, 1201001, DELIVERY, 23.938
2018-09-03, 520047, 1201001, RECEIPT, 11.27
2018-09-03, 520047, 1201002, DELIVERY, 16.941
```

```

2018-09-03,520047,1201002,RECEIPT,21.32
2018-09-04,520047,1201001,DELIVERY,18.941
2018-09-04,520047,1201001,RECEIPT,30.32
2018-09-04,520047,1201002,DELIVERY,21.93
2018-09-04,520047,1201002,RECEIPT,22.32
2018-09-05,520047,1201001,DELIVERY,26
2018-09-05,520047,1201001,RECEIPT,25.3
2018-09-05,520047,1201002,DELIVERY,18.94
2018-09-05,520047,1201002,RECEIPT,20.32
2018-09-06,520047,1201001,DELIVERY,20.1
2018-09-06,520047,1201001,RECEIPT,24.4
2018-09-06,520047,1201002,DELIVERY,17
2018-09-06,520047,1201002,RECEIPT,31.3
2018-09-07,520047,1201001,DELIVERY,32.35
2018-09-07,520047,1201001,RECEIPT,28.1
2018-09-07,520047,1201002,RECEIPT,26.5
2018-09-07,520047,1201002,RECEIPT,25.2

```

JSON format example

```

{
  "ItemList": [
    {
      "GasDate": "2018-09-02T00:00:00+10:00",
      "FacilityId": 520047,
      "ConnectionPointId":120001,
      "FlowDirection": "DELIVERY",
      "NominationQuantity": "25.525"
    },
    {
      "GasDate": "2018-09-02T00:00:00+10:00",
      "FacilityId": 520047,
      "ConnectionPointId":120001,
      "FlowDirection": "RECEIPT",
      "NominationQuantity": "20.21"
    },
    {
      "GasDate": "2018-09-02T00:00:00+10:00",
      "FacilityId": 520047,
      "ConnectionPointId":120002,
      "FlowDirection": "DELIVERY",

```

```
"NominationQuantity": "15.513"

},

{
  "GasDate": "2018-09-02T00:00:00+10:00",
  "FacilityId": 520047,
  "ConnectionPointId":120002,
  "FlowDirection": "RECEIPT",
  "NominationQuantity": "25.23",

},

{
  "GasDate": "2018-09-03T00:00:00+10:00",
  "FacilityId": 520047,
  "ConnectionPointId":120001,
  "FlowDirection": "DELIVERY",
  "NominationQuantity": "23.938"

},

{
  "GasDate": "2018-09-03T00:00:00+10:00",
  "FacilityId": 520047,
  "ConnectionPointId":120001,
  "FlowDirection": "RECEIPT",
  "NominationQuantity": "11.27"

},

{
  "GasDate": "2018-09-03T00:00:00+10:00",
  "FacilityId": 520047,
  "ConnectionPointId":120002,
  "FlowDirection": "DELIVERY",
  "NominationQuantity": "25.525"

},

{
```

```

    "GasDate": "2018-09-03T00:00:00+10:00",
    "FacilityId": 520047,
    "ConnectionPointId":120002,
    "FlowDirection": "RECEIPT",
    "NominationQuantity": "21.32"
  }
  ...
}
]
}

```

A3.9 Uncontracted Capacity Outlook

A3.9.1 Example 1

The following example is an Uncontracted Capacity Outlook submission for a *BB pipeline*.

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data, and does not include header file information.

- Submission for a BB pipeline (540066).
- A BB pipeline has a Capacity Type value “MDQ”, and Capacity Description, Receipt Location, and Delivery Location must be provided.

CSV file format

```

FacilityId,OutlookMonth,OutlookYear,CapacityType,OutlookQuantity,FlowDirection,CapacityDescription,ReceiptLocation,DeliveryLocation,Description
540066,2018,02,MDQ,100.522,,Capacity From BWP to SWQP facility,1200001,1300004,Capacity Outlook for 2018-02-19
540066,2018,03,MDQ,67.801,,Capacity From BWP to SWQP facility,1200001,1300004,Capacity Outlook for 2018-03-21

```

JSON format

```

{
  "ItemList": [
    {
      "FacilityId": 540066,
      "OutlookMonth": 02,
      "OutlookYear": 2018,
      "CapacityType": "MDQ",
      "OutlookQuantity": 100.522,
      "FlowDirection": null
      "CapacityDescription": "Capacity From BWP to SWQP facility",
    }
  ]
}

```

```

    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Capacity Outlook for 2018-02-19"
  },
  {
    "FacilityId": 540066,
    "OutlookMonth": 02,
    "OutlookYear": 2018,
    "CapacityType": "MDQ",
    "OutlookQuantity": 67.801,
    "FlowDirection": null
    "CapacityDescription": "Capacity From BWP to SWQP facility",
    "ReceiptLocation": 1200001,
    "DeliveryLocation": 1300004,
    "Description": "Capacity Outlook for 2018-03-21"
  }
]
}

```

A3.10 BB Capacity Transaction

A3.10.1 Example 1

A CSV file format example is shown for BB website upload, and JSON file format for HTTP web services. The JSON format example only illustrates information relating to the transaction data and does not include header file information.

- Submission for 2019-03-01

CSV file format

```

TradeId,TradeDate,FromGasDate,ToGasDate,BuyerName,SellerName,FacilityId,FacilityName,
Flowdirection,StandardOTSA,BBTransportationServiceType,Priority,ReceiptPointId,Delive
ryPointId,ParkLoanPointId,Quantity,MHQ,Price,PriceStrusture,PriceEscalationMechanism
123456,2019-03-01,2019-03-10,2019-03-20,Star Energy,Purple
Energy,52001,,,YES,FORWARD_HAUL,Secondary
Firm,3001,4001,5001,240,10,4.20,Variable,10% per annum
,2019-03-01,2019-03-10,2019-03-20,Star Energy,Purple Energy,,Tamworth
pipeline,NORTH_EAST,NO,BACKHAUL,Primary Firm,,,,,240,10,4.20,Variable,

```

JSON format

```

{
  "ItemList": [
    {

```

```

"TradeId": 123456,
"TradeDate": "2019-03-01",
"FromGasDate": "2019-03-10",
"ToGasDate": "2019-03-20",
"BuyerName": "Star Energy",
"SellerName": "Purple Energy",
"FacilityId": 52001,
"FacilityName": null,
"FlowDirection": null,
"StandardOTSA": "YES",
"BBTransportationServiceType": "FORWARD_HAUL",
"Priority": "Secondary Firm",
"ReceiptPointId": 3001,
"DeliveryPointId": 4001,
"ParkLoanPointId": 5001,
"Quantity": 240,
"MHQ": 10,
"Price": 4.20,
"PriceStructure": "Variable",
"PriceEscalationMechanism": "10% per annum"
},
{
"TradeId": null,
"TradeDate": "2019-03-01",
"FromGasDate": "2019-03-10",
"ToGasDate": "2019-03-20",
"BuyerName": "Star Energy",
"SellerName": "Purple Energy",
"FacilityId": null,
"FacilityName": "Tamworth pipeline",
"FlowDirection": "NORTH_EAST",
"StandardOTSA": "NO",
"BBTransportationServiceType": "FORWARD_HAUL",
"Priority": "Primary Firm",
"ReceiptPointId": null,
"DeliveryPointId": null,

```

```
"ParkLoanPointId": null,  
"Quantity": 240,  
"MHQ": 10,  
"Price": 4.20,  
"PriceStructure": "Variable",  
"PriceEscalationMechanism": null  
}  
]  
}
```

A3.11 Auction Curtailment Notice (to be completed)

A3.12 Daily Auction Service Curtailment Information (to be completed)

A3.13 Shipper List (to be completed)

A3.14 Short Term Transaction (to be completed)

A3.15 Storage Capacity Transaction (to be completed)

A3.16 LNG Transaction (to be completed)

A3.17 LNG Shipment (to be completed)

A3.18 Gas Field Interest Detail (to be completed)

A3.19 Gas Field Interest (to be completed)

A3.20 Facility Development (to be completed)

A4. Validation Error Codes

These are the validation error codes for all transaction types

Label	Description
{0}	The invalid data provided for a field in the uploaded file.
{1}	The data type for a field in the uploaded file.

Error code	Error type	Transaction log description
0	File processing success	File processed without errors or alarms, {0} rows accepted
1	File processing error	Unexpected file processing error
2	File processing error	Unexpected file processing error
3	File processing error	File name provided does not comply with COMPID_TRANSACTIONNAME_CCYYMMDDHHMMSS.CSV naming convention
4	File processing error	The transaction name {0} within the file name provided is not of a known type
5	File processing error	The transaction fields do not match those associated to the transaction name
8	File processing error	Invalid data provided {0} for type {1}
9	File processing error	Empty file submitted
89	File processing error	Rows with duplicate key information are present in the file
20	Date	The GasDate {0} provided is not a valid date
21	Date	The GasDate {0:yyyy-MM-dd HH:mm:ss} provided must be a current or future date
22	Date	The EffectiveDate {0} provided is not a valid date.
23	Date	Effective Date {1:yyyy-MM-dd HH:mm:ss} for facility {0} is in the past.
24	Date	The TerminationDate {0} provided is not a valid date.
25	Date	The TerminationDate {0:yyyy-MM-dd HH:mm:ss} provided must be a current or future date
26	Date	Gas Date {1:yyyy-MM-dd HH:mm:ss} for facility {0} is not a historical date
27	Date	The TerminationDate {0:yyyy-MM-dd HH:mm:ss} must be later than the EffectiveDate
28	Date	ToGasDate must be equal to or greater than FromGasDate
29	Date	Effective Date {1:yyyy-MM-dd} for connection point {0} is in the past
30	Date	Month {0} provided is not valid. Must be between 1 and 12
31	Date	Year {0} provided is not valid
32	Date	Gas Date {0:yyyy-MM-dd HH:mm:ss} is not a historical date
33	Date	FromGasDate must be equal to or greater than current gas day.
34	Date	FromGasDate must not overlap the date range of any other row for the same FacilityId and Outlook Type.

Error code	Error type	Transaction log description
35	Date	ToGasDate must not overlap the date range of any other row for the same FacilityId and Outlook Type.
36	Date	FromGasDate and ToGasDate can only be a maximum of one calendar month apart.
37	Date	Gas Date {0:yyyy-MM-dd} can be for either of D, D+1 or D+2.
105	Date	Gas Date is older than a month.
40	Identifier	Facility Id {0} does not exist in the database.
41	Identifier	Participant is not the registered operator of Facility {0}.
42	Identifier	Zone ID {0} does not exist in the database.
43	Identifier	Zone ID {1} is not associated with Facility Id {0}.
44	Identifier	The OfferId provided does not exist in the database.
45	Identifier	The UserId provided does not exist on the database.
46	Identifier	The UserId provided is not associated with the file provider.
47	Identifier	The EventId provided does not exist on the database.
48	Identifier	The file provider is not authorised to upload transactions of this type.
49	Identifier	ConnectionPointId {0} does not exist in the database.
50	Identifier	Participant is not the registered operator of connection point {0}.
51	Identifier	Participant is not permitted to submit data for {0} transactions.
52	Identifier	Zone does not exist in the database for Facility {0}.
53	Identifier	Facility Id {0} is not a valid storage facility.
54	Identifier	Facility Id {0} is not a valid pipeline.
60	Type	Capacity type {1} for facility {0} is not valid.
61	Type	Demand type {1} for facility {0} is not valid.
62	Type	Nomination type {1} for facility {0} is not valid.
63	Type	Outlook type {1} for facility {0} is not valid.
64	Type	Flow type {1} for facility {0} is not valid.
65	Type	Offer type {1} for facility {0} is not valid.
66	Type	Status type {1} for facility {0} is not valid.
67	Type	Event type {1} for facility {0} is not valid.
68	Type	Flag type {1} for facility {0} is not valid.
69	Type	Quality type {1} for facility {0} is not valid.
70	Type	Outlook type {0} is not valid for a pipeline. Valid values are TRANC and REVC.
71	Type	Outlook type {0} is not valid for a storage facility. Valid values are PRODC, WDLC, INJC.
72	Type	Outlook type {0} is not valid for a production facility. Valid value is PRODC.

Error code	Error type	Transaction log description
73	Type	BuySell value {0} is not valid
74	Type	Nomination type {0} is invalid for a Declared Transmission System facility. Valid values are D+0, D+1, D+2, D+3, D+4, D+5 or D+6.
75	Type	Nomination type {0} is invalid for a non-Declared Transmission System facility. Valid values are FCNOM, FIRMN or FIRMR.
76	Type	Flow Direction {0} is not valid
77	Type	Transmission Direction {0} is not valid