GUIDE TO NATURAL GAS SERVICES BULLETIN BOARD REPORTS

HOW TO ACCESS AND CREATE BB REPORTS

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AEMO
AUSTRALIAN ENERGY MARKET OPERATOR

IMPORTANT NOTICE

Purpose

AEMO has prepared this Guide to Natural Gas Services Bulletin Board Reports (Guide) to provide guidance on the use of the Natural Gas Services Bulletin Board reports under the National Gas or Electricity Rules (Rules), as at the date of publication.

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Version History

0.1 Draft

1.1 Published final version

1.2 Revised final version with API reports

2.1 Inclusion of initial Part 24 changes

What's changed

Item	What's changed
Actual Flow and Storage	Changed Report Period from 1 calendar month to 36 days of data
Report conventions	Changes to the characteristics of Connection Point Identifiers
New API: Connection Point Nameplate Rating	New API URL: Connection Point Nameplate Rating.
New Report: New Connection Point Nameplate Rating report	Remove the Gate Station Nameplate Rating Report and replace with the Connection Point Nameplate Rating report.
Remove Report: Location Daily Production and Flow report	Remove Location Daily Production and Flow report
Remove Report: Location Nominations and Forecasts	Remove Location Daily Production and Flow report
Update Report: Nameplate Rating	Update Nameplate rating report to include *transitional compression facilities*
New Report: Allocation Agent Information	New PDF report provided by participant in PDF and published onto the BB.

Documents made obsolete

The release of this document changes only the version of Guide to Gas Bulletin Board Reports.

Further Information

For further information, please visit AEMO's website www.aemo.com.au or contact:

AEMO Information and Support Hub Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.
Email: supporthub@aemo.com.au

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Glossary

These abbreviations, symbols, and special terms assist the reader's understanding of the terms used in this document. Terms defined in the National Gas Law or the National Gas Rules have the same meanings in this document unless otherwise specified in this document.

Abbreviation	Abbreviation Explanation
AEMO	Australian Energy Market Operator
AEST	Australian Eastern Standard Time
BBO	The Natural Gas Services Bulletin Board Operator
CSV	Comma-Separated Values, a comma delimited text
N/A	Not Applicable
BB	Natural Gas Services Bulletin Board
TJ	1,000 Gigajoules, 10^{12} Joules. A Joule is a unit of energy.

Special Terms

Term	Definition
Demand Location	A location where the natural gas load is delivered by one or more BB pipelines.
Gas Day	A period of 24 consecutive hours that commences in accordance with the respective agreements or rules that apply to the facilities and pipelines covered by the BB. The Gas Day Start Hour that applies to each facility or pipeline is published in the Facility report.
Procedures	The Bulletin Board procedures made under Part 18 of the National Gas Rules.
Supply Location	A location in which natural gas is produced from one or more facilities and is injected into one or more BB pipelines that transport the gas to other supply location or Demand location.
Rules	The National Gas Rules.
TJ	1 Terajoule, 1,000 Gigajoules, 1,000,000 Joules. A Joule is a unit of energy.

1 INTRODUCTION

1.1 Purpose

This guide describes the mechanisms and formats for the Natural Gas Services Bulletin Board (BB) reports published by AEMO through RESTful APIs.

1.2 Audience

The primary audience for this document is business users and IT developers involved in the design and implementation of systems that interface with the BB.

1.3 How to use this guide

This guide is organised by report name and describes the specifications of each report. Use this guide to help you understand the reports and to develop automated tools for processing the report data.

Text in this format indicates a direct hyperlink with details of the resource listed in section “3.4”.

1.4 What is in this guide

- Chapter 2 “Overview” describes the general report formats and report conventions.
- Chapter 3 “Retrieve BB Reports ” explains how to retrieve JSON format reports using HTTPS web services.

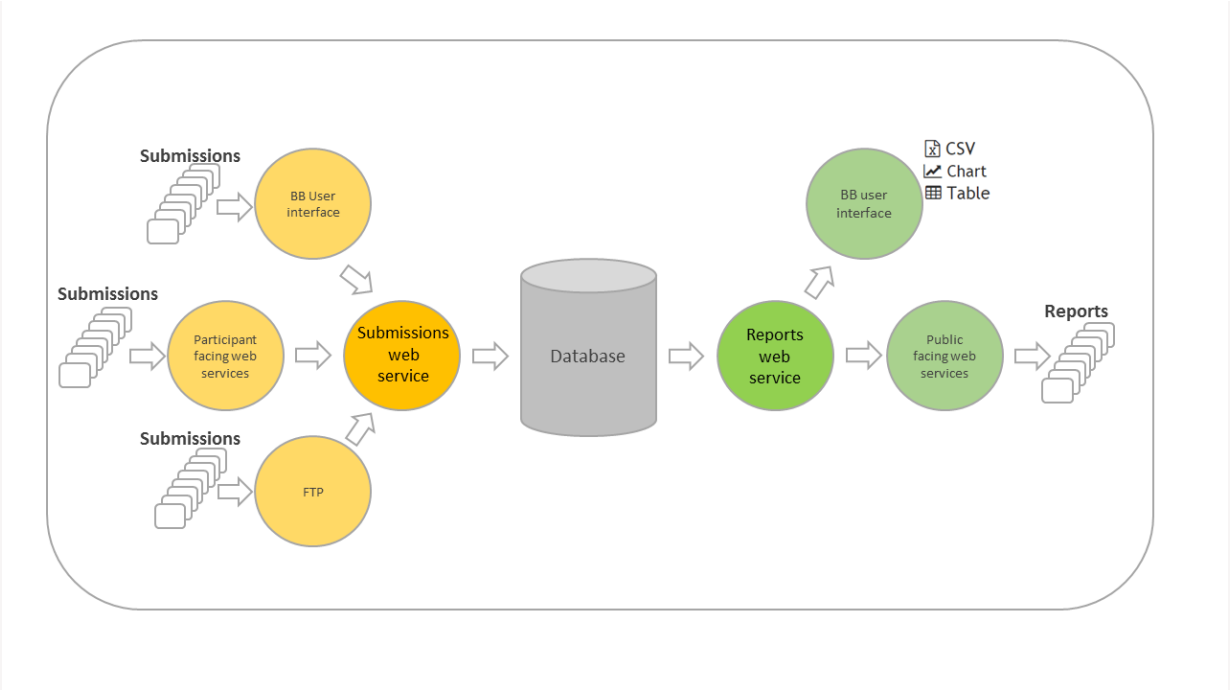
2 OVERVIEW

Data exchange between Participants and the BB consists of:

- Participants submitting data to the BB, and
- Participant retrieving data reports from the BB.

Figure 1 illustrates the mechanisms at a conceptual level.

Figure 1 BB data exchange mechanisms



Registered participants can retrieve BB reports using the following methods:

- JSON format reports: Using public API by submitting a POST request to a report URL.
- The BB website http://gbb.aemo.com.au

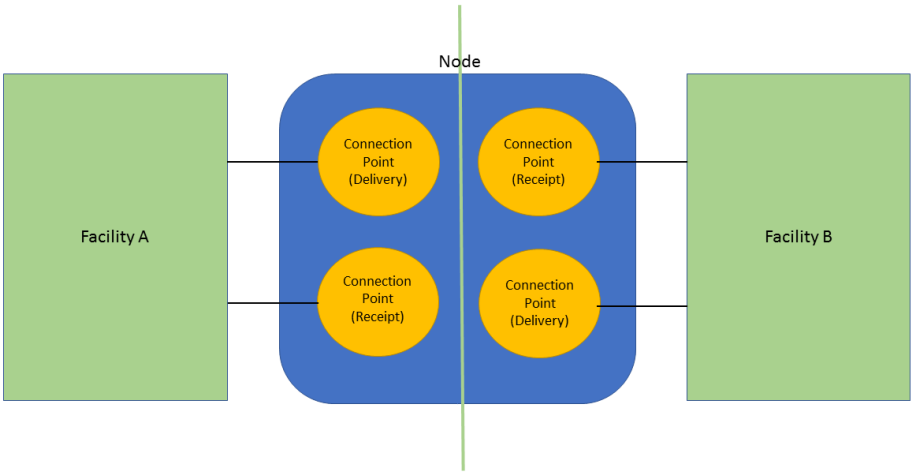
You can use any report retrieval method depending on the IT systems and requirements of the *BB reporting entity*.

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

2.1 Data structure concepts

AEMO uses the concept of nodes to link facilities and their connection points.

- A node consists of up to four connection points and can have up to two facilities connected to it.
- A facility can have two unidirectional connection points connected to a node, for example, one connection point for gas receipt, and one connection point for gas delivery as shown in the following diagram.
- A facility can have any number of nodes.



2.2 Report conventions

2.2.1 Facility identifiers

Facility identifiers (FacilityId) used in reports subscribe to the following format:

```
5+[2-8]+[0-9]{1,4}
```

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

FacilityIds have the following characteristics:

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

For example, FacilityId “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.

2.2.2 Connection Point Identifiers

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

```
1+[2-8]+[0-9]{1,5}
```

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

ConnectionPointIDs have the following characteristics:

- ConnectionPointIDs are defined and allocated by AEMO to *BB reporting entities* during the registration process.
- A unique ConnectionPointID will be assigned for each receipt and delivery gas flow for each registered facility.
- *BB reporting entities* must report flows into their respective facilities as receipts, and flows out of their respective facilities as deliveries, for each ConnectionPointID.
-
- The state code element for a ConnectionPointID corresponds to its physical location. In the case of *BB pipelines* that traverse multiple states, state codes for ConnectionPointIDs along the line can differ from that of other ConnectionPointID and the pipeline's FacilityId.
- The 1-9999 unique identifying number of a ConnectionPointID to be unique for each state. Thus, two ConnectionPointIDs 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 number identifier of "1000".
- Connection Point ID "1401000" relates to a connection point within Queensland with the state based unique number identifier of "1000".

3 RETRIEVE BB REPORTS

You can retrieve BB reports through AEMO's public APIs by submitting a HTTPS GET request to a API endpoint URL.

AEMO's HTTPS web services is accessed through a MarketNet connection.

3.1 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://apiportal.preprod.aemo.com.au/#default/gallery
- Production environment: https://apiportal.prod.aemo.com.au/#default/gallery

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.

3.2 System requirements

API Web Portal

- MarketNet or internet connection. For more information about MarketNet, see Guide to Information Systems.
- User ID and password. You can register through the AEMO API Portal.

API Gateway

- Access to MarketNet.
- An application to Base64 encode your User Rights Management (URM) username and password for authorisation.
- Authentication using a 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.

3.3 HTTPS POST request format

A HTTPS POST request contains header attributes as shown in the following table.

Table 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")

Figure 2 Example HTTPS POST request

```
POST /api/v1/GateStationNameplateRatingRequest HTTP/1.1
Host: TBC

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


{}
```

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

3.4 API endpoint URLs

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/report/v1/{resourceName}

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

Market Facing MarketNet web service host

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

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

The report name is the name of one of the available reports. All possible ReportName values are listed in Table 2. URLs for listing and retrieving reports are appended to the base URL for the report.

Notes:

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

Table 2 URLs for retrieving reports

Report	API endpoint URL
Actual Flow and Storage	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/dailyProductionAndFlow
Facility	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/facilities
Connection Point Nameplate Rating	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/connectionPointNameplateRating
Linepack Capacity Adequacy	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/linepackCapacityAdequacy
Locations	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/locations
Location Nominations and Forecasts	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/locationNominationsAndForecasts
Medium Term Capacity Outlook	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/mediumTermCapacityOutlook
Nameplate Rating	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/nameplateRating
Nominations and Forecasts	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/nominationsAndForecasts
Pipeline Connection Point Flow	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/pipelineConnectionPointFlow

Report	API endpoint URL
Registered Contact	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/registeredContact
Registered Participants Report	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/registeredParticipant
Secondary Pipeline Capacity Bid and Offer Summary	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/secondaryPipelineCapacityBidsOffers
Secondary Pipeline Capacity Trade Summary	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/secondaryPipelineCapacityTrades
Short Term Capacity Outlook	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/shortTermCapacityOutlook
State Daily Production and Flow	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/stateDailyProductionAndFlow
State Nominations and Forecasts	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/stateNominationsAndForecasts
States	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/states
Uncontracted Capacity Outlook Report	https://apis.preprod.aemo.com.au:9319/ws/gbb/report/v1/uncontractedCapacityOutlook
Shippers with Contracted Pipeline Capacity Report	To be provided in PDF format.
Voluntary Information from LNG Producers in Queensland Report	To be provided in PDF format.

Report GET requests are only accepted by the system if **all** request data passes validation.

3.5 Filtering requests

You can filter GET requests by defining filter parameters in the GET request URL. The filter parameters that be used for a BB report are described in BB Report formats.

The following example shows HTTPS POST request to retrieve a Nominations and Forecasts Report filtered by Effective Date and Pipelines.

GET request URL:

http://xxxxxx/NominationsAndForecasts?FromGasDate=2018-07-01&FacilityIds=10000,10001

3.6 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 BB are shown in the following table.

Table 3 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
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.SSLHandshakeException: 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. The content of these fields is described in Table 4.

Table 4 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 report request response is shown below:

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: length
{"data":{}}
```

4 BB REPORT FORMATS

A BB report is retrieved by using AEMO's web services and sending a HTTP POST request to a valid endpoint URL. The report body is in JSON format.

The examples provided in the following sections only illustrate submission type data in JSON, and does not include header file information. For more information about report headers, see 3.3 HTTPS POST request format.

4.1 Actual Flow and Storage

4.1.1 Description

Transaction report name	ACTUAL_FLOW_AND_STORAGE
Purpose	The report shows Daily Production, Flow and Storage data aggregated by Facility Id for a queried outlook period. The report only returns a maximum total of one calendar month of data for all facilities. The report can be filtered to reduce data output.
Update interval	Daily
Production Frequency	On request.
Report Period	Up to 365 days of data for all facilities.
Default report parameters	From Date = One calendar month from request date To Date = Request Date Filters = None (All Data)

4.1.2 Data report format

The following fields are available in the report.

Field name	Description	Data type	Example
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-09-23 00:00:00
Facility Name	Name of the facility.	varchar (255)	Berwyndale to Wallumbilla Pipeline
State	Name of the state.	char(3)	NSW
Location Id	Unique location identifier	int	520345
Location Name	Name of the location.	varchar (255)	Sydney (SYD)
Demand	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Supply	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)

Field name	Description	Data type	Example
Transfer In	Usage type. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer Out	Usage type. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Held in Storage	Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Facility Id	A unique AEMO defined Facility identifier.	int	520345
Location Id	Unique location identifier	int	520345
Completeness	The percentage of data that is aggregated.	number(18,3)	85
Last Updated	The date data was last submitted by a participant based on the report query.	varchar(20)	2018-09-04T00:00:00+10:00

4.1.3 Report filters

Actual Flow and Storage reports in JSON format can be filtered by:

- State
- Facility Type
- Participants
- Facilities

4.1.4 Example report

The JSON format report displays Facility JSON objects with nested Node JSON objects. Each Node JSON object contains Connection Point JSON objects.

In the following example, a pipeline contains two nodes, one of which contains a connection point.


```
{
    "data": {
        "ActualFlowAndStorageList": [
            {
                "FacilityId": 530038,
                "GasDate": "2018-05-12T00:00:00+10:00"
                "FacilityName": "LNG Storage Dandenong",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 45,
                "Supply": 21,
                "TransferIn": 0,
                "TransferOut": 0,
                "HeldInStorage": 2.453,
                "Completeness": 85,
                "LastUpdated": "2018-05-27T14:36:51+10:00"
            },
```

```
            {
                "FacilityId": 530039,
                "GasDate": "2018-05-12T00:00:00+10:00",
                "FacilityName": "Lang Lang Gas Plant",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 0,
                "Supply": 1.1,
                "TransferIn": 0,
                "TransferOut": 0,
                "HeldInStorage": null,
                "Completeness": 79
                "LastUpdated": "2018-05-27T14:36:51+10:00"
            },
            {
                "FacilityId": 530040,
                "GasDate": "2018-05-12T00:00:00+10:00",
                "FacilityName": "Longford Gas Plant",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 0,
                "Supply": 1.1,
                "TransferIn": 0,
                "TransferOut": 0,
                "HeldInStorage": null,
                "Completeness": 85
                "LastChanged": "2018-05-27T14:36:51+10:00"
            },
            {
                "FacilityId": 530048,
                "GasDate": "2018-05-12T00:00:00+10:00",
                "FacilityName": "Longford to Melbourne",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 0,
                "Supply": 0,
                "TransferIn": 2.2,
                "TransferOut": 6.2,
                "HeldInStorage": null,
                "Completeness": 85
                "LastUpdated": "2018-05-27T14:36:51+10:00"
            }
        ]
    },
    "errors": []
}
```


4.2 Facility

4.2.1 Description

Transaction report name	FACILITY
Purpose	Provides a report for the details of all facilities and associated nodes and Connection Points.
Update interval	Daily
Production frequency	On request.

Report period	Current.

4.2.2 Data report format

AEMO uses the nodes concept to link facilities and their connection points. This data structure concept is reflected in this report. For more information about nodes, see 2.1 Data structure concepts.

The following fields are provided in the report.

JSON object	Field name	Description	Data type	Example
FacilityList	FacilityId	A unique AEMO defined Facility identifier.	int	520345
FacilityList	FacilityType	The name of the BB facility.	varchar (256)	Berwyndale to Wallumbilla Pipeline
FacilityList	FacilityName	Name of the organisation operating the facility.	varchar(255)	Jemena Eastern Gas Pipeline (1) Pty Ltd
FacilityList	OperatorId	Unique operator identifier.	Int	138
FacilityList	OperatorName	Name of the facility operator	varchar(255)	
FacilityList	HighRange	Percentage value used for (high) validation of capacity outlook.	int	120
FacilityList	LowRange	Percentage value used for (low) validation of capacity outlook.	int	10
FacilityList	Exempt	Specifies whether facility has been excluded for BB purposes. Valid entries are: Yes, No	char(1)	No
FacilityList	GasDayStartHour	Specifies the gas day start hour for this specific facility. Valid entries are 0 to 23.	int	8
FacilityList	LastUpdated	Date and time record was last modified.	datetime	2018-02-26
Locations	LocationId	Unique Location identifier.	int	520345
Locations	LocationName	Name of the Location.	varchar(40)	Sydney
Nodes	LastUpdated	Date and time record was last modified.	datetime	2018-02-26
Nodes	NodeId	Unique node identifier	Int	94022
Nodes	LocationId	Unique Location identifier.	int	520345
Nodes	LocationName	Name of the location.	char(3)	NSW

JSON object	Field name	Description	Data type	Example
Nodes	StateId	State code of element: 2 NSW and ACT 3 Victoria 4 Queensland 5 South Australia 7 Tasmania 8 Northern Territory	int	2
Nodes	StateName	Name of the state.	char(3)	NSW
Nodes	LastUpdated	Date and time record was last modified.	datetime	2018-02-26
Connection Points	ConnectionPointId	Unique ConnectionPoint identification number. For more information, see Connection Point Identifiers.	int	1400036
Connection Points	ConnectionPointName	Connection point name	Existing	APLNG Pipeline to DDP
Connection Points	FlowDirection	Gas flow direction. Values can be either: RECEIPT — A flow of gas into the *BB facility*, or DELIVERY — A flow of gas out of the *BB facility*.	char(8)	RECEIPT; DELIVERY
Connection Points	HasAggregationPriority	Whether the point has aggregation priority. Values can be True or False.	Varchar	true
Connection Points	LastUpdated	Date and time record was last modified.	datetime	2018-02-26

4.2.3 Report Filters

Reports can be filtered by:

- FacilityId
- FacilityType

4.2.4 Example report

The JSON format report displays Facility JSON objects with nested Node JSON objects. Each Node JSON object contains Connection Points JSON objects.

In the following example, a pipeline contains two nodes, one of which contains a connection point.

```
{
    "data": {
        "FacilityList": [
            {
                "FacilityId": 540093,
                "FacilityName": "APLNG Pipeline",
                "FacilityType": "PIPE",
```

```
                "OperatorId": 101,
                "OperatorName": "Australia Pacific LNG Pty Limited",
                "LowRange": 10,
                "HighRange": 120,
                "Exempt": null,
                "GasDayStartHour": 8,
                "LastUpdated": "2015-10-26T08:05:19+11:00",
                "Locations": [
                    {
                        "LocationId": 540031,
                        "LocationName": "Wallumbilla (WAL)",
                    },
                    {
                        "LocationId": 590001,
                        "LocationName": "Regional - QLD"
                    },
                    {
                        "LocationName": "Curtis Island LNG Demand Zone",
                        "LocationId": 540030
                    }
                ],
                "Nodes": [
                    {
                        "NodeId": 94022,
                        "LocationId": 540031,
                        "LocationName": "Wallumbilla (WAL)",
                        "StateId": 0,
                        "StateName": null,
                        "LastUpdated": "2018-05-01T01:00:00+10:00",
                        "Exempt": null,
                        "ConnectionPoints": []
                    },
                    {
                        "NodeId": 94033,
                        "LocationId": 590001,
                        "LocationName": "Regional - QLD",
                        "StateId": 0,
                        "StateName": null,
                        "LastUpdated": "2018-05-01T01:00:00+10:00",
                        "Exempt": null,
                        "ConnectionPoints": [
                            {
                                "ConnectionPointId": 1404033,
                                "ConnectionPointName": "Condabri South",
                                "FlowDirection": "RECEIPT",
                                "HasAggregationPriority": true,
                                "LastUpdated": "0001-01-01T00:00:00+11:00"
                            }
                        ]
                ]
            }
        ]
    },
    "errors": []
}
```

4.3 Connection Point Nameplate Rating

4.3.1 Description

Transaction report name	CONNECTION_POINT_NAMEPLATE_RATING
Purpose	This report displays the nameplate rating for each connection point id connected to a *BB pipeline* or *transitional compression facility*. This report will be a combination of all submissions for Gate Station Nameplate Rating and Connection Point Nameplate Rating
Production frequency	On request.
Report period	Current and future records.
Default report parameters	From Date = 31 Calendar days from request date To Date = Request Date Filters = None (All Data)

4.3.2 Data report format

The following fields are provided in the report.

Data	Description	Data type	Example
Connection Point Name	Connection Point name where the connection point is associated to a *BB Pipeline* or *transitional compression facility*	varchar(200)	Albion Park
Connection Point Id	A unique AEMO defined connection point identifier.	int	1201001
Facility Name	The facility reported.	varchar(50)	Eastern Gas Pipeline
Facility Id	Unique facility identifier.	int	520047
Owner Name	The reporting facility owner.	varchar(50)	Jemena EGP
Operator Name	Name of the operator for the facility.	varchar(50)	Jemena Eastern Gas Pipeline (1) Pty Ltd
CapacityQuantity	Standing capacity quantity in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	number(18,3	32.232 25.2 (if the value is 25.200)
Effective Date	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	datetime	2018-03-23

4.3.3 Report filters

Connection Point Nameplate Rating reports in JSON format can be filtered by:

- Effective Date

- FacilityIds
- ConnectionPointIds

4.3.4 Example report

```
Response body
{
  "data": {
    "GateStationNameplateRatingList": [
      {
        "ConnectionPointName":”Bomaderry”,
        "ConnectionPointID": 1202002,
        "FacilityName": "Eastern Gas Pipeline",
        "FacilityId": 520047,
        "OwnerName": "Jemena EGP",
        "OperatorName": "Jemena Eastern Gas Pipeline (1) Pty Ltd",
        "CapacityQuantity": 220.561,
        "EffectiveDate": "2018-03-24T00:00:00+10:00",
        "LastUpdated":
      },
      {
        "ConnectionPointName": “Bombala”,
        "ConnectionPointID": 1202002,
        "FacilityName": "Eastern Gas Pipeline",
        "FacilityId": 520047,
        "OwnerName": "Jemena EGP",
        "OperatorName": "Jemena Eastern Gas Pipeline (1) Pty Ltd",
        "CapacityQuantity": 220.561,
        "EffectiveDate": "2018-02-23T00:00:00+10:00",
        "LastUpdated": null
      }

    ]
  },
  "errors": null
}
```

4.4 Linepack Capacity Adequacy

4.4.1 Description

Transaction report name	LINEPACK_CAPACITY_ADEQUACY
Purpose	Provides a report for the Linepack Capacity Adequacy for each Pipeline for the current and next 2 gas days (D to D+2). The report can be filtered to reduce data output.
Production frequency	On request.
Report period	Current and the next 2 Gas Days (D to D+2)
Default report parameters	From Gas Date to when the report is generated.

4.4.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-09-23
Facility Id	A unique AEMO defined Facility identifier.	int	520345
Facility Name	The name of the BB facility.	varchar(255)	Berwyndale to Wallumbilla Pipeline
Flag	The flags are traffic light colours (Green, Amber, Red) indicating the LCA status for each pipeline. For more information, see the table below.	char(5)	RED;AMBER;GREEN
Description	Free text facility use is restricted to a description for reasons or comments directly related to the change in the LCA flag and the times, dates, or duration for which those changes are expected to apply.	varchar(800)	
Last Updated	The date when the record was last updated.	datetime	2018-02-19

LCA flags for *BB pipelines*

LCA Flag	BB Pipelines	Declared Transmission System
GREEN	Pipeline is able to accommodate increased gas flows.	Pipeline is able to accommodate increased gas flows.
AMBER	Pipeline is flowing at full capacity, but no involuntary curtailment of 'firm' load is likely or happening.	A Net Flow Transportation Constraint has been applied to the BB Pipeline that is impacting a schedule, but no involuntary curtailment of load is likely or happening.
RED	Involuntary curtailment of 'firm' load is likely or happening.	Involuntary curtailment of load is likely or happening.

4.4.3 Report filters

Linepack Capacity Adequacy reports can be filtered by:

- GasDate
- FacilityId, multiple Facility Ids, or all Facility Ids.

4.4.4 Example report

The following example is a Linepack Capacity Adequacy report for a *BB storage* with Facility Id 530038 during the period 2018-12-01 to 2018-12-03.


```
{
  "data": {
    "LinepackCapacityAdequacyList": [
      {
        "GasDate": "2018-12-01T00:00:00+10:00",
        "FacilityId": 530038,
        "FacilityName": "APLNG Pipeline",
        "Flag": "GREEN",
        "Description": "All OK",
        "LastUpdated": "2018-12-01T09:50:45+10:00"
```

```
      },
      {
        "GasDate": "2018-12-02T00:00:00+10:00",
        "FacilityId": 530038,
        "FacilityName": "APLNG Pipeline",
        "Flag": "GREEN",
        "Description": "All OK",
        "LastUpdated": "2018-12-01T09:50:45+10:00"
      },
      {
        "GasDate": "2018-12-01T00:00:00+10:00",
        "FacilityId": 530038,
        "FacilityName": "APLNG Pipeline",
        "Flag": "GREEN",
        "Description": "All OK",
        "LastUpdated": "2018-12-01T09:50:45+10:00"
      }

    ]
  },
  "errors": null
}
```


4.5 Locations

4.5.1 Description

Transaction report name	LOCATIONS
Purpose	This report lists all production and demand locations within the Bulletin Board system.
Update interval	Daily
Production frequency	On request
Report period	Current records.

4.5.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
Location Name	Name of the Location.	varchar(40)	Sydney (SYD)
Location Id	Unique Location identifier.	int	520345
State	Location	char(3)	NSW
LocationType	Type of location	Varchar(40)	Head office
Description	Free text description of the Location including boundaries and the basis of measurement.	varchar(255)	Sydney Basin
Last Updated	Date the list of locations was last updated.	Date	2018-9-20 16:15:18

4.5.3 Example report


```
{
```

```
  "data": {
    "LocationsList": [
{

      "LocationName": "Adelaide (ADL)",

      "LocationId": 550016,

      "LocationType": null,

      "StateId": "SA",

      "Description": "Demand supplied through SEA Gas CG (Cavan) and the MAP CG
(Gepps Cross) including demand from the Torrens Island and Pelican Point gas fired
generators and any other direct connected loads in the Adelaide area",

      "LastUpdated": "2018-9-20T16:15:18+10:00"

       },

{

      "Location Name": "Adelaide (ADL)",

      "LocationId": 550016,

      "LocationType": null,

      "StateId": "SA",

      "LocationDescription": "Demand supplied through SEA Gas CG (Cavan) and the
MAP CG (Gepps Cross) including demand from the Torrens Island and Pelican Point
gas fired generators and any other direct connected loads in the Adelaide area",

      "LastUpdated": "2018-9-20T16:15:18+10:00"

       },

{

      "Location Name": "Aust. Capital Territory (ACT)",

      "LocationId": 520009,

      "LocationType": null,

      "StateId": "NSW",


      "Location Id": 520009,

      "State": "NSW",

      "LocationDescription": "Demand supplied through either the EGP CG at
Hoskinstown or the MSP-Canberra CG at Watson",

      "LastUpdated": "2018-9-20T16:15:18+10:00"

       },

{

      "Location Name": "Ballera(BAL)",

      "LocationId": 540078,
```

```
      "LocationType": null,

      "StateId": "QLD",

      "LocationDescription": "Deliveries to the Ballera locale including (any by-
passes to the proposed QSN Link or to the CGP from the SWQP)",

      "LastUpdated": "2018-9-20T16:15:18+10:00"

       }

          ]
  },
  "errors": null
}
```


4.6 Medium Term Capacity Outlook

4.6.1 Description

Transaction report name	MEDIUM_TERM_CAPACITY_OUTLOOK
Purpose	Provides a report of the Capacity Outlook for the medium term to identify possible impact to future supply. The report can be filtered to reduce data output.
Update interval	Daily
Production frequency	On request.
Report period	Up to a maximum of 12 months into the future.

4.6.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
Facility Id	Unique plant identifier.	Int	520345
Facility Name	Name of the plant.	varchar(255)	Berwyndale to Wallumbilla Pipeline
From Gas Date	Date of gas day. Any time component supplied is ignored. The gas day is applicable under the pipeline contract or market rules.	datetime	2018-09-23
To Gas Date	Date of gas day. Any time component supplied is ignored. The gas day is that applicable under the pipeline contract or market rules.	datetime	2018-09-23
Capacity Type	Capacity type values can be: STORAGE — Holding capacity in storage; or MDQ — Daily maximum firm capacity under the expected operating conditions.	varchar(10)	STORAGE; MDQ
Outlook Quantity	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.	number(18,3)	200.531 190.2 (if the value is 190.200)

Field name	Description	Data type	Example
Flow Direction	Gas flow direction. Values can be either: RECEIPT — A flow of gas into the *BB facility*, or DELIVERY — A flow of gas out of the *BB facility*.	char(8)	RECEIPT; DELIVERY
Capacity Description	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.	varchar(800)	2018-09-23
Receipt Location	The Connection Point Id that best represents the receipt location. The Receipt Location in conjunction with the Delivery Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1200001 -1 (for *BB facilities* other than *BB pipelines*)
Delivery Location	The Connection Point Id that best represents the delivery location. This location in conjunction with the Receipt Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1300056 -1 (for *BB facilities* other than *BB pipelines*)
Description	Comments about the quantity or change in Outlook Quantity relating to the Facility Id, and the times, dates, or duration which those quantities or changes in quantities.	varchar(255)	
Last Updated	Date and time record was last modified.	datetime	

4.6.3 Report filters

Reports in JSON format can be filtered by:

- Facility Id, multiple values, or all facilities
- From Gas Date
- To Gas Date
- Capacity Type

4.6.4 Example reports

```
{
  "data": {
    "MediumTermCapacityOutlookList": [
{

      "GasDate": "2018-06-22T00:00:00+10:00",

      "FromGasDate": "2018-06-22T00:00:00+10:00",

      "ToGasDate": "2018-06-30T00:00:00+10:00",

      "FacilityId": 540066,

      "FacilityName": "Berwyndale to Wallumbilla Pipeline",

      "CapacityType": "MDQ",
```

```
      "CapacityTypeDescription":"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",

      "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"

      "LastUpdated": "2018-05-01"

      },

       {

      "GasDate": "2018-06-22T00:00:00+10:00",

      "FromGasDate": "2018-06-22T00:00:00+10:00",

      "ToGasDate": "2018-06-30T00:00:00+10:00",

      "FacilityId": 540066,

      "FacilityName": "Berwyndale to Wallumbilla Pipeline",

      "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"

      "LastUpdate": "2018-05-01"

     }

    ]
  },
  "errors": null
}
```

4.7 Nameplate Rating

4.7.1 Description

Transaction report name	NAMEPLATE_RATING
Purpose	This report displays the standing nameplate capacity of all *BB facilities* and *transitional compression facility*. Nameplate rating relates to maximum daily quantities in TJ under normal operating conditions.
Production frequency	On request.
Report period	Current and future records.
Default report parameters	From Date = 31 Calendar days from request date To Date = Request Date Filters = None (All Data)

4.7.2 Data report format

The following fields are provided in the report.

Data element	Description	Data type	Example / Allowed values
Facility Name	Facility name associated with the Facility Id.	varchar(255)	APLNG Pipeline
Facility Id	A unique AEMO defined Facility identifier.	int	520345
Facility Type	Facility type associated with the Facility Id.	varchar(5) or varchar(255)	PIPE;PROD; STOR
Capacity Type	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).	varchar(10)	STORAGE; MDQ
Capacity Quantity	Standing capacity quantity in TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.5 (if the value is 25.500)
Flow Direction	Gas flow direction. Values can be either: RECEIPT — A flow of gas into the BB storage facility, or DELIVERY — A flow of gas out of the BB storage facility. NONE – will be displayed for all other *BB facilities* and *transitional compression facilities.*	varchar(10)	RECEIPT; DELIVERY; NONE;
Capacity Description	Free text to describe the meaning of the capacity number provided, including relevant assumptions made in the calculation of the capacity number and any other relevant information. Only provided for *BB pipelines* or *transitional compression facilities*.	varchar(800)	

Data element	Description	Data type	Example / Allowed values
Receipt Location	The Connection Point Id that best represents the receipt location. The Receipt Location in conjunction with the Delivery Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1200001 -1 (for *BB facilities* other than *BB pipelines*)
Delivery Location	The Connection Point Id that best represents the delivery location. This location in conjunction with the Receipt Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1300056 -1 (for *BB facilities* other than *BB pipelines*)
Effective Date	Gas day date that corresponding record takes effect. Any time component supplied will be ignored.	datetime	2018-03-23
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 *BB facility* (such as daily production data, nameplate rating, *LCA flag*, etc.), and the times, dates, or duration for which those quantities or changes in quantities are expected to apply.	varchar(255)	
Last Updated	Date and time record was last updated.	datetime	2016-10-23 19:58:58

4.7.3 Report filters

Nameplate Rating reports in JSON format can be filtered by:

- Effective Date
- Capacity Types
- Facility Id
- Facility Types
- Flow Directions

4.7.4 Example report

```
Response body
{
  "data": {
    "NameplateRatingList": [
      {
        "FacilityId": 530043,
        "FacilityName": "APLNG Pipeline",
        "FacilityType": "PIPE",
        "CapacityType": "MDQ",
        "CapacityQuantity": "1560.321",
        "FlowDirection": null,
```

```
        "CapacityDescription": " This transmission capacity is the amount of gas
that the Culcairn delivery point is able to withdraw from this pipeline facility
",
        "ReceiptPoint": 1300502,
        "DeliveryPoint": 1300405,
        "EffectiveDate": "2018-09-04T00:00:00+10:00",
        "Description": "increase in nameplate pipeline capacity due to completion
of VNIE Phase B",
        "LastUpdated": "2018-09-04",
      },
    ]
  },
  "errors": null
}
```


4.8 Nominations and Forecasts

4.8.1 Description

Transaction report name	NOMINATIONS_AND_FORECASTS
Purpose	The report shall return Nomination and Forecast data submitted to the market from the start of a queried outlook period where the outlook period can contain dates from D+0 to D+1, D+2, D+3, D+4, D+5, D+6. Nomination and Forecasts data shall be aggregated by *BB facility.*
Update interval	Daily
Production frequency	On request.
Report period	The outlook period consists of D+0, D+1, D+2, D+3, D+4, D+5, and D+6.
Default report parameters	For the specified Outlook Start Date, all Nomination and Forecasts data for all Facilities.

4.8.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Examples
Gas Date	Date of gas day. Where the start date presented in the report is D and subsequent dates go up till D+6.	varchar(20)	2018-09-23
Facility Name	The name of the BB facility.	varchar (256)	Berwyndale to Wallumbilla Pipeline
State	Name of the state.	char(3)	NSW
Location Name	Name of the location.	varchar (255)	Sydney (SYD)
Demand	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232

			25.2 (if Actual Delivery Quantity is 25.200)
Supply	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer In	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer Out	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Facility Id	A unique AEMO defined Facility identifier.	int	520345
Location Id	Unique location identifier	int	520345
Completeness	The percentage of data that is aggregated.	number(18,3)	85
Report Date Time	Date and time the report was generated.	varchar(20)	2018-09-04T00:00:00+10:00
Last Updated	Date file was last updated.	varchar(20)	2018-09-04T00:00:00+10:00

4.8.3 Report filters

Nomination and Forecasts report in JSON format can be filtered by:

- FromGasDay
- ToGasDay
- FacilityId.
- LocationId

The report output contains the latest submission for that gas day. For requested past dates, this is the day ahead or on-the-day nominations and forecast submission. For future dates, the output is the latest nominations and forecast submission.

4.8.4 Example report


```
{
  "data": {
      "NominationsAndForecastsList": [
          {
              "GasDate": "2018-05-12T00:00:00+10:00",
              "FacilityId": 530042,
              "FacilityName": "Iona Underground Gas Storage",
              "LocationId": 590009,
              "LocationName": "Gippsland",
              "Demand": 5,
              "Supply": 10,
```

```
                "TransferIn": 0,
                "TransferOut": 0,
                "LastUpdated": "2018-05-27T14:36:51+10:00",
                "Completeness": 50
            },
            {
                "GasDate": "2018-05-12T00:00:00+10:00",
                "FacilityId": 530043,
                "FacilityName": "Minerva Gas Plant",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 0,
                "Supply": 3,
                "TransferIn": 0,
                "TransferOut": 0,
                "LastUpdated": "2018-05-27T14:36:51+10:00",
                "Completeness": 50
            },
            {
                "GasDate": "2018-05-12T00:00:00+10:00",
                "FacilityId": 530051,
                "FacilityName": "South West Pipeline",
                "LocationId": 590009,
                "LocationName": "Gippsland",
                "Demand": 0,
                "Supply": 0,
                "TransferIn": 3,
                "TransferOut": 5,
                "LastUpdated": "2018-05-27T14:36:51+10:00",
                "Completeness": 50
            }
        ]
    },
    "errors": []
}
```


4.9 Pipeline Connection Flow

4.9.1 Description

Transaction report name	PIPELINE_CONNECTION_POINT_FLOW
Purpose	Provides a report for the Daily production and usage at each Connection Point. The report only returns a maximum total of one calendar month of data for all facilities. The report can be filtered to reduce data output.
Update interval	Daily
Production Frequency	On request.
Report Period	Up to one calendar month of data for all facilities.
Default report parameters	From Date = One calendar month from request date To Date = Request Date Filters = None (All Data)

4.9.2 Data report format

The following fields are available in each row of the report.

Field name	Description	Data type	Example
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-09-23 00:00:00
Facility Id	A unique AEMO defined Facility identifier.	int	520345
Facility Name	Name of the facility.	varchar (255)	Berwyndale to Wallumbilla Pipeline
Connection Point Id	A unique AEMO defined connection point identifier.	int	1200001
Connection Point Name	Names of the connection point.	varchar (255)	Longford
Flow Direction	A conditional value of either: RECEIPT — A flow of gas into the *BB pipeline*, or DELIVERY — A flow of gas out of the *BB pipeline*.	char(8)	RECEIPT; DELIVERY
Actual Quantity	The actual flow quantity reported in TJ to the nearest terajoule with three decimal places.	number (18,3)	32.232 25.2 (if Actual Quantity is 25.200)
Quality	Indicates whether meter data for the submission date is available. Values can be either: OK — Connection point Actual Quantity data for gas flow into or out of a BB facility based on meter data, or NIL — Connection Point Actual Quantity data for gas flow into or out of a BB facility cannot be determined due to an operational issue. OOR — Connection Point Actual Quantity data is OOR (Out of Range) where the submitted value exceeds the High Range set for a Connection Point's Capacity. Not Available — Connection Point Actual Quantity data for the gas flow into or out of the *BB facility* has not been submitted by the *BB reporting entity* for the gas date.	char(13)	OK; NIL; OOR, Not Available
LastUpdated	The date data was last submitted by the participant based on the report query.	datetime	2018-09-04 00:00:00

4.9.3 Report filters

Pipeline Connection Flow reports in JSON format can be filtered by:

- From Gas Date
- To Gas Date
- Facility Id

4.9.4 Example report


```
{
  "data": {
    "PipelineConnectionPointFlowList": [
      {
        "GasDate": 2018-04-18T00:00:00+10:00,
        "FacilityId": 540093,
        "FacilityName": "Berwyndale to Wallumbilla Pipeline",
        "ConnectionPointId": 1201001,
        "ConnectionPointName": "Longford",
        "FlowDirection": "RECEIPT",
        "ActualQuantity": "123.122",
        "Quality": "OK",
        "LastUpdated": "2018-04-18T00:00:00+10:00"
      }
    ]
  },
  "errors": null
}
```


4.10 Registered Contacts

4.10.1 Description

Transaction report name	REGISTERED_CONTACTS
Purpose	Provides a report of registered contact details for each participant.
Update interval	As required.
Production frequency	On request.
Report period	Current records.

4.10.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
PersonId	Person unique identifier	Int	
PersonName	Name of the person	varchar(255)	John Smith
CompanyName	Company name associated with the person.	varchar(255)	Bolder Mining Company
CompanyId	Company ID associated with the person	Int	13
Position	Job title of person.	varchar(40)	Energy Procurement Manager
Email	Email address of person.	varchar(255)	john.smith@boldermining.com.au
Last Updated	Date and time the record was last modified.	datetime	2018-08-14

4.10.3 Example report


```
{
  "data": {
    "RegisteredContactsList": [
      {
       "PersonId": ,
       "PersonName": "John Smith",
       "CompanyId": 139,
       "CompanyName": "Australian Energy Market Operator",
        "Position": "Manager Mkt Ops",
        "Email": "john.smith@gasco.com.au",
        "LastUpdated": "2018-08-14T00:00:00+10:00",
      }
    ]
  },
  "errors": null
}
```


4.11 Registered Participants

4.11.1 Description

Transaction report name	REGISTERED_PARTICIPANTS
Purpose	Provides a report of registered participants
Update interval	Daily
Production frequency	On request.
Report period	Current records.

4.11.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
Company Name	Company name associated with the person.	varchar (255)	AGL
Company Id	Company ID associated with the person	varchar(30)	261
ABN	Australian Business Number for the participant	varchar(30)	99006005989
Company Phone	Company phone details	number(30)	03 9609 8000
Locale	Location for the participant	varchar (255)	Hawthorn
Last Updated	Last changed details	Datetime	2018-12-20

Field name	Description	Data type	Example
Address Type	Type of address	varchar(255)	Head office
Address	Mailing address for the company	varchar(255)	530 Collins St Melbourne
Jurisdiction	State where the company is located	Char(3)	VIC
Postcode	Postcode details	varchar(4)	3001
Company Fax	Company fax details	varchar(30)	03 9234 8766

4.11.3 Example report


```
{
  "data": {
    "RegisteredParticipantsList": [
      {
        "CompanyName": "Australian Energy Market Operator",
        "CompanyId": 139,
        "ABN": "99006005989",
        "Company Phone": "03 9609 8000",
        "Locale": "Melbourne",
        "LastUpdated": "2018-12-20T00:00:00+10:00",
        "AddressType": "Head Office",
        "Address": "GPO Box 2008 Melbourne",
        "Jurisdiction": "VIC",
        "Postcode": "3001",
        "CompanyFax": "03 9609 8080"
      }
    ]
  },
  "errors": null
}
```


4.12 Secondary Pipeline Capacity Bid and Offer Summary

4.12.1 Description

Transaction report name	SECONDARY_PIPELINE_CAPACITY_BID_AND_OFFER_SUMMARY
Purpose	Provide information on secondary pipeline capacity available for sale on BB pipelines. This is limited to pipelines where the pipeline operator owns, controls, or operates a secondary pipeline capacity trading platform.
Update interval	Weekly.
Production frequency	On request.
Report period	All available data

4.12.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
FacilityId	Unique pipeline identifier.	int	520345
FacilityName	Name of the pipeline.	varchar(40)	Berwyndale to Wallumbilla Pipeline
BuySell	Indicates whether the shipper is either looking to buy or sell spare capacity.	char(4)	BUY; SELL
AvailableQuantity	Spare capacity quantity in TJ per day.	number(18,3)	134.452
Price	Spare capacity price expressed in $/TJ.	decimal(18,2)	20.15
FromGasDate	Date spare capacity comes into effect.	datetime	2018-02-23
ToGasDate	Date spare capacity is effective to.	datetime	2018-02-23
ReceiptLocation	Name of the location where gas is receipted into the pipeline.	int	1200000
DeliveryLocation	Name of the location where gas is delivered out of the pipeline.	int	1300173
ContactDetails	Name and number of shippers contact person.	varchar(255)	Andrew Smith - 0403 156 491
CompanyId	Unique identifier for the company submitting the data to AEMO.	int	138
CompanyName	Name of company submitting the data.	varchar(40)	Jemena Eastern Gas Pipeline (1) Pty Ltd
LastUpdated	Date and time record was last modified.	datetime	2018-02-23

4.12.3 Report filters

Reports in JSON format can be filtered by:

- Facility Id
- Sides (Valid values are “BUY”, “SELL” and “BUY,SELL”)

4.12.4 Example report


```
{
  "data": {
    "SecondaryPipelineCapacityBidOfferList": [
      {
       "FacilityId": 550054,
       "FacilityName": "Roma-Brisbane Pipeline",
       "BuySell": "BUY",
       "AvailableQuantity": 100,
       "Price": 4.50,
       "FromGasDate": "2018-02-23",
       "ToGasDate": "2018-02-30",
       "ReceiptLocation": 1200000,
       "DeliveryLocation": 1300173,
       "ContactDetails": "JOHN SMITH - 0444 111 222",
       "CompanyId": 200000.25,
       "CompanyName": "APA GROUP",
       "LastUpdated": "2018-03-01"
      },
```

```
      {
       "FacilityId": 550054,
       "FacilityName": "Roma-Brisbane Pipeline",
       "BuySell": "SELL",
       "AvailableQuantity": 300,
       "Price": 524.80,
       "FromGasDate": "2018-04-05",
       "ToGasDate": "2018-04-30",
       "ReceiptLocation": 1200000,
       "DeliveryLocation": 1300173,
       "ContactDetails": "Peter Jones – 0433 444 777",
       "CompanyId": 94,
       "CompanyName": "APA Group",
       "LastUpdated": "2018-05-01"
      }
    ]
  },
  "errors": null
}
```


4.13 Secondary Pipeline Capacity Trade Summary

4.13.1 Description

Transaction report name	SECONDARY_PIPELINE_CAPACITY_TRADE_SUMMARY
Purpose	Provide information on secondary pipeline capacity trades that have occurred. This is limited to BB pipelines where the pipeline operator owns, controls, or operates a secondary pipeline capacity trading platform.
Update interval	Weekly.
Production frequency	On request.
Report period	All available data

4.13.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
FacilityId	Unique pipeline identifier.	int	520345
FacilityName	Name of the pipeline.	varchar(40)	Berwyndale to Wallumbilla Pipeline
GasDate	Date of trade summary data.	datetime	2018-02-23
NameplateCapacity	Official pipeline capacity expressed in TJ.	number(18,3)	119000.000
DailyNominations	Daily aggregate quantity of gas (expressed in TJ) nominated for delivery from the pipeline.	number(18,3)	83200.345

Field name	Description	Data type	Example
DailyUtilisation	Percentage of the pipeline capacity that is utilised per day.	number(18,3)	68.324
AvailableCapacity	Operational capacity minus nominations each day. Expressed in TJ.	number(18,3)	3660.232
CapacityOnOffer	Sum of total capacity offered for sale expressed in TJ.	number(18,3)	102.987
DailyCapacityTraded	Sum of total daily sold capacity expressed in TJ.	number(18,3)	204.123
DailyCapacity	Operational capacity.	number(18,3)	75.987
ContractedCapacity	Firm-forward, contracted pipeline capacity expressed in TJ.	number(18,3)	7500.678
AverageAnnualCapacityTraded	Sum of total annual sold capacity divided by number of days, year to date. Expressed in TJ.	number(18,3)	8320.345
CompanyID	Unique identifier for the company submitting the data to AEMO.	int	138
CompanyName	Name of the company submitting the data to AEMO.	varchar(255)	Jemena Eastern Gas Pipeline (1) Pty Ltd
Receipt Location	The Connection Point Id that best represents the receipt location. The Receipt Location in conjunction with the Delivery Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1200001 -1 (for *BB facilities* other than *BB pipelines*)
Delivery Location	The Connection Point Id that best represents the delivery location. This location in conjunction with the Receipt Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1300056 -1 (for *BB facilities* other than *BB pipelines*)
LastUpdated	Date the record was last modified.	Date	2018-02-23

4.13.3 Report filters

Reports in JSON format can be filtered by:

- From Date
- To Date

- Facility ID
- Select all or multiple *BB pipelines*

4.13.4 Example report


```
{
  "data": {
    "SecondaryPipelineCapacityTradeList": [
      {
       "FacilityId": 540060,
       "FacilityName": "Roma-Brisbane Pipeline",
       "GasDate": "2018-02-23",
       "NameplateCapacity": 3000.251,
       "DailyNominations":,
       "DailyUtilisation": 68.561,
       "AvailableCapacity": 2000.25,
       "CapacityOnOffer": 2000.25,
       "DailyCapacityTraded": 2000.25,
       "DailyCapacity": 3000.25,
       "ContractedCapacity": 3000.25,
       "AverageAnnualCapacityTraded": 14500.25,
       "CompanyID": "94",
       "CompanyName": "APA Group",
       "ReceiptPointLocation": "1200000",
       "DeliveryPointLocation": "1300056",
       "LastUpdated": "2018-02-10"
      },
      {
       "FacilityId": 550052,
       "FacilityName": "Roma-Brisbane Pipeline",
       "GasDate": "2018-02-23",
       "NameplateCapacity": 10000.256,
       "DailyNominations":,
       "DailyUtilisation": 6600.25,
       "AvailableCapacity": 56.257,
       "CapacityOnOffer": 5000.25,
       "DailyCapacityTraded": 5000.252,
       "DailyCapacity": 10000.525,
       "ContractedCapacity": 10000.325,
       "AverageAnnualCapacityTraded": 45000.235,
       "CompanyID": 94,
       "CompanyName": "APA Group",
       "ReceiptPointLocation": "1200000",
       "DeliveryPointLocation": "1300056",
       "LastUpdated": "2018-02-10"
      }
    ]
  },
```

```
  "errors": null
}
```

4.14 Shippers with Contracted Pipeline Capacity

4.14.1 Description

Transaction report name	N/A
Purpose	A list of published documents for BB pipelines which list shippers that have a contracted pipeline capacity.
Update interval	As required.
Production frequency	On request.
Report period	Adhoc.
Notes	AEMO does not standardise this information into a single report. AEMO publishes BB shipper lists as provided by BB pipeline operators.

4.15 Short Term Capacity Outlook

4.15.1 Description

Transaction report name	SHORT_TERM_CAPACITY_OUTLOOK
Purpose	This report displays the daily storage of gas at each storage facility. The report can be filtered to reduce data output.
Production frequency	On request.
Report period	Up to one calendar month of data for all facilities.
Default report parameters	From Date = 1 Calendar month from request date To Date = Request Date Filters = None (All Data)

4.15.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Examples
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-02-23
Facility Id	A unique AEMO defined Facility Identifier.	int	520345
Facility Name	The name of the BB facility.	varchar(255)	Berwyndale to Wallumbilla Pipeline

Field name	Description	Data type	Examples
Capacity Type	Capacity type values can be: STORAGE — Holding capacity in storage; or MDQ — Daily maximum firm capacity under the expected operating conditions.	varchar(10)	STORAGE; MDQ
Outlook Quantity	Capacity outlook quantity to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	number(18,3)	1234.500 25.2 (if the value is 25.200)
Flow Direction	Gas flow direction. Only valid for *BB storage facilities*. Values can be either: RECEIPT — A flow of gas into the *BB facility*, or DELIVERY — A flow of gas out of the *BB facility*.	char(8)	RECEIPT; DELIVERY
Capacity Description	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. Only valid for *BB pipelines*.	varchar(800)	
Receipt Location	The Connection Point Id that best represents the receipt location. The Receipt Location in conjunction with the Delivery Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1200001 -1 (for *BB facilities* other than *BB pipelines*)
Delivery Location	The Connection Point Id that best represents the delivery location. This location in conjunction with the Receipt Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1300056 -1 (for *BB facilities* other than *BB pipelines*)
Receipt Description	A description of the Receipt Location. Only valid for *BB pipelines*.	varchar(800)	Silver Springs Delivery Stream
Delivery Description	A description of the Delivery Location. Only valid for *BB pipelines*.	varchar(800)	BWP from SWQP (Wallumbilla) Delivery Stream
Description	Comments about the quantity or change in Flow Direction relating to the Facility Id, and the times, dates, or duration which those quantities or changes in quantities.	varchar(800)	
LastUpdated	Date the record was last modified.	datetime	2018-02-23

4.15.3 Report filters

Short Term Capacity Outlook reports in JSON format can be filtered by:

- Gas Date
- Facility ID
- Capacity Type
- Flow Direction

4.15.4 Example report


```
Response body
{
  "data": {
    "ShortTermCapacityOutlookList": [
      {
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "STORAGE",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-03T00:00:00+10:00",
        "OutlookQuantity": 237.525,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null,
        "LastUpdated": "29 July 2018 14:17:21"
      },
      {
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "STORAGE",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-04T00:00:00+10:00",
        "OutlookQuantity": 240.938,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null,
        "LastUpdated": "29 July 2018 14:17:21"
      },
      {
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "MDQ",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-05T00:00:00+10:00",
        "OutlookQuantity": 238.941,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null
        "LastUpdated": "2 July 2018 11:17:21"
      },
      {
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "MDQ",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-06T00:00:00+10:00",
        "OutlookQuantity": 238,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
```

```
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null
        "LastUpdated": "2 June 2018 14:22:21"
      },
      {
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "MDQ",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-07T00:00:00+10:00",
        "OutlookQuantity": 236.1,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null,
        "LastUpdated": "29 July 2018 14:17:21"
      },
{
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "MDQ",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-08T00:00:00+10:00",
        "OutlookQuantity": 14.331,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null,
        "LastUpdated": "29 July 2018 14:17:21"
      },
{
        "FacilityId": 530038,
        "FacilityName": "LNG Storage Dandenong",
        "CapacityType": "MDQ",
        "FlowDirection": "DELIVERY",
        "GasDate": "2017-12-09T00:00:00+10:00",
        "OutlookQuantity": 237.981,
        "Description": "This capacity is the amount of gas that this storage
facility can inject into the Victorian Declared Transmission System",
        "CapacityDescription": null,
        "ReceiptLocation": null,
        "DeliveryLocation": null,
        "LastUpdated": "29 July 2018 14:17:21"
      }

    ]
  },
  "errors": null
}
```


4.16 State Daily Production and Flow

4.16.1 Description

Transaction report name	STATE_DAILY_PRODUCTION_AND_FLOW
Purpose	Need info

Production frequency	On request.
Report period	Need info
Default report parameters	From Date = 1 Calendar month from request date To Date = Request Date Filters = None (All Data)

4.16.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Examples
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-02-23
State Id	State identifier	int	
State Name	State where the company is located	char(3)	VIC
State Short Name	Short descriptor for state	varchar(40)	
Demand	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Supply	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer In	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer Out	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Completeness	The percentage of data that is aggregated.	number(18,3)	85
LastUpdated	Date the record was last modified.	datetime	2018-02-23

4.16.3 Report filters

State Daily Production and Flow List reports in JSON format can be filtered by:

- FromGasDate
- ToGasDate

4.16.4 Example report

```
Response body
{
  "data": {
```

```
    "StateDailyProductionAndFlowList": [
      {
        "GasDate": 2017-12-03T00:00:00+10:00,
        "StateId": 0,
        "StateName": VIC,
        "StateShortName": ,
        "Demand": 5,
        "Supply": 10,
        "TransferIn": 0,
        "TransferOut": 0,
        "Completeness": 50,
        "LastUpdated": "29 July 2018 14:17:21"
      }
    ]
  }
},
  "errors": null
}
```


4.17 State Nominations and Forecasts

4.17.1 Description

Transaction report name	STATE_NOMINATIONS_AND_FORECASTS
Purpose	NEED INFO
Production frequency	On request.
Report period	Up to one calendar month of data for all facilities.
Default report parameters	From Date = 1 Calendar month from request date To Date = Request Date Filters = None (All Data)

4.17.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Examples
Gas Date	Date of gas day. Timestamps are ignored. The gas day as defined in the pipeline contract or market rules.	datetime	2018-02-23
State Id	State identifier	int	
State Name	State where the company is located	char(3)	VIC
State Short Name	Short descriptor for state	varchar(40)	
Demand	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Supply	Usage type expressed in TJ. Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)

Field name	Description	Data type	Examples
Transfer In	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Transfer Out	Usage type expressed in TJ. Only applicable to *BB pipelines.* Three decimal places is not shown if the value has trailing zeros after the decimal place.	number(18,3)	32.232 25.2 (if Actual Delivery Quantity is 25.200)
Completeness	The percentage of data that is aggregated.	number(18,3)	85
LastUpdated	Date the record was last modified.	datetime	2018-02-23

4.17.3 Report filters

State Nominations and Forecasts reports in JSON format can be filtered by:

- FromGasDate
- ToGasDate

4.17.4 Example report

```
Response body
{
  "data": {
    "StateNominationsAndForecastsList": [
      {
        "GasDate": 2017-12-03T00:00:00+10:00,
        "StateId": 0,
        "StateName": VIC,
        "StateShortName": ,
        "Demand": 5,
        "Supply": 10,
        "TransferIn": 0,
        "TransferOut": 0,
        "Completeness": 50,
        "LastUpdated": "29 July 2018 14:17:21"
      }
    ]
  }
},
  "errors": null
}
```

4.18 States

4.18.1 Description

Transaction report name	STATES
Purpose	Need info
Production frequency	On request.
Report period	Up to one calendar month of data for all facilities.

Default report parameters	From Date = 1 Calendar month from request date To Date = Request Date Filters = None (All Data)

4.18.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Examples
State Id	State identifier	int	
State Name	State where the company is located	char(3)	VIC
State Short Name	Short descriptor for state	varchar(40)	

4.18.3 Report filters

State List reports in JSON format can be filtered by:

- State ID

4.18.4 Example report

```
Response body
{
  "data": {
    "StateList": [
      {
        "StateId": 0,
        "StateName": VIC,
        "StateShortName": ,
      }
    ]
  }
},
  "errors": null
}
```

4.19 Uncontracted Capacity Outlook Report

4.19.1 Description

Transaction report name	UNCONTRACTED_CAPACITY_OUTLOOK
Purpose	Provides a report of the Uncontracted Capacity Outlook on pipelines and storage facilities. The report can be filtered to reduce data output.
Update interval	Monthly
Production frequency	On request.
Report period	The next 12 months.

4.19.2 Data report format

The following fields are provided in the report.

Field name	Description	Data type	Example
Facility Id	Unique plant identifier.	int	520345
Facility Name	Name of the plant.	varchar(255)	Berwyndale to Wallumbilla Pipeline
Outlook Month	The month that the uncontracted capacity is available.	int	04
Outlook Year	The year that the uncontracted capacity is available.	int	2018
Capacity Type	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).	varchar(10)	STORAGE; MDQ
Outlook Quantity	Outlook Quantity as the daily average quantity across the monthin TJ to three decimal places. Three decimal places is not required if the value has trailing zeros after the decimal place.	number(18,3)	200.531 190.2 (if the value is 190.200)
Flow Direction	Gas flow direction. Values can be either: RECEIPT — A flow of gas into the *BB facility*, or DELIVERY — A flow of gas out of the *BB facility*.	char(8)	RECEIPT; DELIVERY
Capacity Description	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.	varchar(800)	2018-09-23
Receipt Location	The Connection Point Id that best represents the receipt location. The Receipt Location in conjunction with the Delivery Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1200001 -1 (for *BB facilities* other than *BB pipelines*)
Delivery Location	The Connection Point Id that best represents the delivery location. This location in conjunction with the Receipt Location indicates the capacity direction and location. **Note**: Applicable to *BB pipelines* only. For other *BB facilities*, this field is populated with -1.	int	1300056 -1 (for *BB facilities* other than *BB pipelines*)
Description	Comments about the quantity or change in Outlook Quantity relating to the Facility Id, and the times, dates, or duration which those quantities or changes in quantities.	varchar(255)	
Last Updated	Date and time record was last modified.	datetime	2018-04-20

4.19.3 Report Filters

Reports in JSON format can be filtered by:

- Facility Id, multiple Facility Id values, or all facilities
- Outlook Month
- Outlook Year
- Capacity Type

4.19.4 Example report


```
{
  "data": {
    "UncontractedCapacityOutlookList": [
{

      "FacilityId": 540066,

      "FacilityName": "Berwyndale to Wallumbilla Pipeline",

      "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",

      "LastUpdated": "2018-02-21"

      },

       {

      "GasDate": "2018-06-22T00:00:00+10:00",

      "FacilityId": 540066,

      "FacilityName": "Berwyndale to Wallumbilla Pipeline",

      "OutlookMonth": 03,

      "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",
      "LastUpdated": "2018-02-21"
     }
    ]
  },
  "errors": null
}
```

4.20 Voluntary Information from LNG Producers in Queensland

4.20.1 Description

Transaction report name	N/A
Purpose	A list of published documents provided by LNG that detail scheduled maintenance events.
Update interval	As required.
Production frequency	On request.
Report period	All reports.

4.21 Allocation Agent Information

4.21.1 Description

Transaction report name	N/A
Purpose	Summary of how allocations are performed at service points
Update interval	As required.
Production frequency	On request.
Report period	All reports.

5 NEEDING HELP

5.1 Requesting AEMO assistance

5.1.1 Information to provide

Please provide the following information when requesting IT assistance from AEMO:

- Your name
- Organisation name
- Participant ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

5.1.2 AEMO's Support Hub

IT assistance is requested through one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600)

For non-urgent issues, normal coverage is 8:00 AM to 6:00 PM on weekdays, Australian Eastern Standard Time (AEST).

- Email: supporthub@aemo.com.au

AEMO recommends participants call AEMO's Support Hub for all urgent issues, if you have logged a call in the Customer Portal.

APPENDIX A. VALIDATION ERROR CODES

The validation error codes for all transaction types are shown in the following table.

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 facilty {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.

Error code	Error type	Transaction log description
34	Date	FromGasDate must not overlap the date range of any other row for the same FacilityId and Outlook Type.
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.

Error code	Error type	Transaction log description
71	Type	Outlook type {0} is not valid for a storage facility. Valid values are PRODC, WDLC and INJC.
72	Type	Outlook type {0} is not valid for a production facility. Valid value is PRODC.
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

Where:

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.