



DRAFT GUIDE TO CAPACITY ~~TRADING-TRANSFER~~ AND DAY-AHEAD AUCTION TRANSACTIONS

PROVIDES DETAILS ABOUT PREPARING AND SUBMITTING
DATA TO AND FROM THE CAPACITY ~~TRADING-TRANSFER~~
AND DAY-AHEAD AUCTION MARKET SYSTEMS.

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IMPORTANT NOTICE

Purpose

This [Guide to Capacity Trading and Day-Ahead Auction Transactions](#) was produced by AEMO in accordance with the Capacity Transfer and Auction Procedures. It specifies the manner and form for submitting information to AEMO for Gas Trading Exchange (Capacity Transactions) and Capacity Auctions under Parts 24 and 25 of the National Gas Rules (Rules). To the extent of any inconsistency, the Rules, the National Gas Law, the Capacity Transfer and Auction Procedures and the terms of a capacity auction agreement will prevail over this [Guide to Capacity Trading and Day-Ahead Auction Transactions](#).

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Further Information

For further information, please visit AEMO's website <http://www.aemo.com.au/Gas/Pipeline-Capacity-Trading> or contact:

AEMO Information and Support Hub

Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts.

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1 INTRODUCTION

1.1 Purpose

This guide describes the methods and format used by facility operators and trading participants to submit and receive data relating to capacity trades and day ahead auction for AEMO's Capacity [Trading-Transfer](#) Platform (CTP) and Day-Ahead Auction (DAA) market systems.

1.2 Audience

This guide is for facility operators and trading participants submitting transaction data in accordance with the Capacity Transfer and Auction Procedures, under Parts 24 and 25 of the Rules. The intended audience is technical and software development staff, responsible for IT systems implementation.

1.3 What's in this guide

- "Technical overview" provides an overview of the data exchange mechanisms.
- "Data submission requirements" provides a list and description of transaction data CTP and DAA reporting entities need to provide.
- "Data Identifiers" details the naming conventions for key data identifiers.
- "RESTful Web Service" provides information for submitting and receiving data and using HTTPS requests.
- "Data submission transactions" details the format and structure of each data submission transaction.
- "Report transactions" details the format and structure of each report transaction.

1.4 How to use this guide

- The references listed throughout this document are primary resources and take precedence over this document.
- [Text in this format](#) indicates a resource on AEMO's website.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in 8.2.
 - *Italicised terms* are defined in the Rules. Any rules terms not in this format still have the same meaning.
 - Actions to complete in the web portal interface are **bold and dark grey**.



1.5 Related resources

Resource	Description
Guide to AEMO's e-Hub API's	Explains AEMO's API standards and how to use the AEMO API Portal.
AEMO API Portal pre-production environment: https://apiportal.preprod.aemo.com.au/	Web portal for API information and API guides.
AEMO API Portal production environment: https://apiportal.prod.aemo.com.au/	Web portal for API information and API guides.



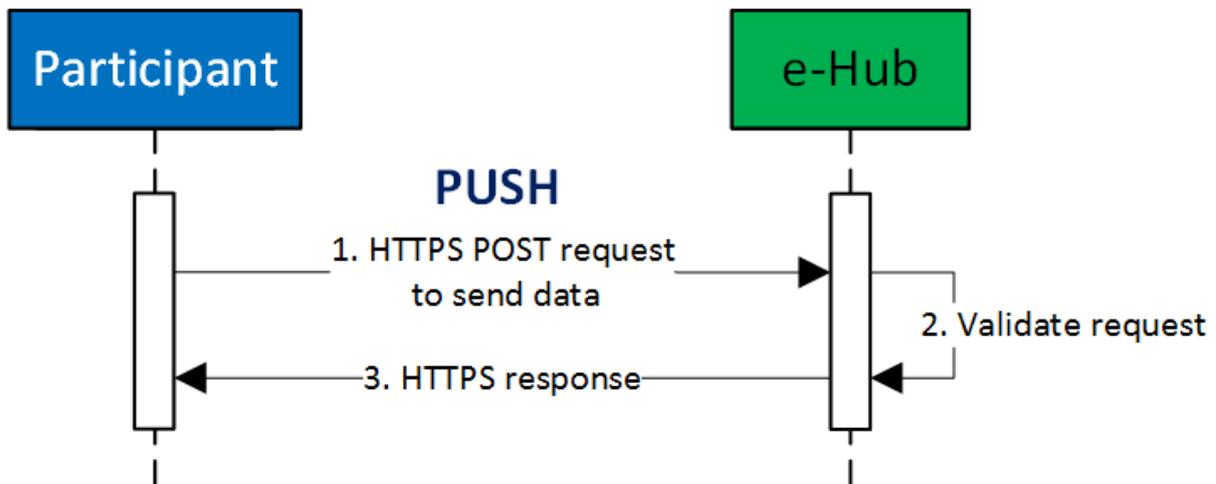
2 TECHNICAL OVERVIEW

The data exchange between reporting entities and the CTP and DAA market systems consists of data submitted and retrieved by participants to the e-Hub API gateway using RESTful web services:

2.1 Data submissions

For data submissions, participants must push the data to the e-Hub using a HTTPS POST request. Figure 1 illustrates the PUSH mechanism.

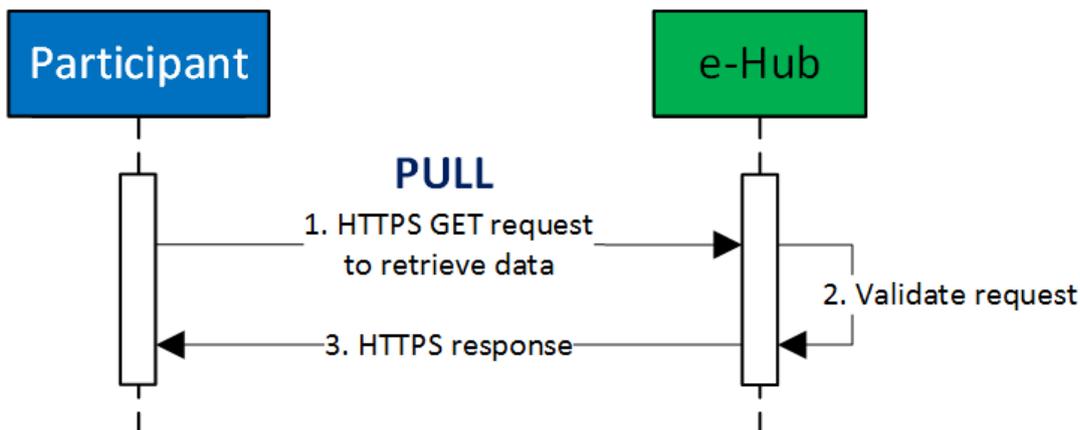
Figure 1 PUSH mechanism



2.2 Data retrieval

For data retrieval, participants must pull the data from the e-Hub using a HTTPS GET request. Figure 2 illustrates the PULL mechanism.

Figure 2 PULL mechanism





In both cases, the e-Hub generates an immediate HTTPS response message back to the participant.

To receive access credentials for the API gateway, all CTP and DAA reporting entities submitting data to the interface must register with AEMO in accordance with the Rules.



3 DATA SUBMISSION REQUIREMENTS

Table 1 below provides a summary of the data provision responsibilities of all **Capacity Trading-Transfer and Day-Ahead Auction entities**.

Table 1 **Data provision responsibilities**

Transaction	Description	Reporting frequency	Facility operators	AEMO	Cut-off times (non harmonised)	Delayed cut-off times (non-harmonised)
	TBC					

Legend

- Obligation under the Rules to provide data to AEMO.



4 DATA IDENTIFIERS

This chapter describes the conventions for key data identifiers when submitting transaction data.

4.1 Facility identifiers

Facility identifiers (FacilityID) 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

FacilityIDs have the following characteristics:

- Defined and allocated by AEMO to facility operators during the registration process of facilities under the Rules.
- A facility operator may report on multiple FacilityIDs.

For example, FacilityID “520345” relates to an element within NSW and ACT with a unique identifier of “0345” relating to the gas industry and purpose.

4.2 Connection point identifiers

Connection Point Identifiers (ConnectionPointID) used in transactions and reports have 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

ConnectionPointIDs have the following characteristics:

- Defined and allocated by AEMO to facility operators during the registration process.
- Individual IDs support unidirectional or bidirectional gas flows.
- The state code element corresponds to its physical location. For pipelines traversing multiple states, the state codes along the line can differ from that of other ConnectionPointIDs and the pipeline's FacilityID.
- The 00001-99999 identifying numbers are unique for each state, meaning they can have the same identifying number in different states. For example:
 - Connection Point ID “1301000” relates to a connection point in Victoria with the state-based unique numeric identifier of “1000”.
 - Connection Point ID “1401000” relates to a connection point in Queensland with the state-based unique numeric identifier of “1000”.

4.3 Zone identifiers

This section is to be completed.

4.4 Pipeline segment identifiers

This section is to be completed.



5 RESTFUL WEB SERVICES

5.1 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 [Guide to AEMO's e-Hub APIs](#).

5.2 System requirements

5.2.1 API Web Portal

To access the API web portal, you require:

- A MarketNet or internet connection. For more information about MarketNet, see [Guide to Information Systems](#).
- A User ID and password. You can register in the AEMO API Portal.

5.2.2 API Gateway

To access the API Gateway, you require:

- A MarketNet or internet connection.
- An application to Base64 encode your User Rights Management (URM) username and password for authorisation.
- Authentication using an SSL digital certificate containing:
 - a. An AEMO digital signature.
 - b. An e-Hub public certificate.
 - c. A root certificate: The public key certificate identifying the root certificate authority (CA).

For more information about obtaining 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.



5.3 URLs

5.3.1 Data submissions

A data submission must be a **HTTPS POST** request to a valid submission URL. The following table shows the generic component of the submission URL.

Table 2 **Generic URLs for submitting transaction data**

Environment	URL
MarketNet Pre-production	TBC
MarketNet Production	TBC
Public internet Pre-production	TBC
Public internet Production	TBC

For the unique URL of each submission transaction, see Section 6.

The system only accepts transactions if ALL data passes validations.

5.3.2 Reports

A report transaction must be a **HTTPS GET** request to a valid report URL. This table shows the generic components of the report URL.

Table 3 **Generic URLs for retrieving report data**

Environment	URL
MarketNet Pre-production	TBC
MarketNet Production	TBC
Public internet Pre-production	TBC
Public internet Production	TBC

For the unique URL of each report transaction, see Section 7.



Report data must be PULLED from the API gateway by the participant.

5.4 HTTPS request format

A HTTPS request consists of:

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

Table 4 **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 message. 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: GSH
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 QFhQVC0wMDAwMzoyZWZmOGJhYS0wY2I0LTQwZjctOTlyMS0yODUxNmM4N2MxNjQ= (For URM username "@XPT-00003" and password "2edf8baa-0cb4-40f7-9221-28516c87c164")



A HTTPS request must use one of the following methods:

- POST for data submissions
- GET for report data retrieval

Below is an example of a Contract Details HTTPS POST request with the following details:

- POST request URL: **TBC**
- Participant ID: 123456

OTHER HEADER INFORMATION TBC

```
Content-type: application/json
Accept: application/json
Content-length: nnn
Authorization: Basic QFhQVC0wMDAwMzoyZWZWRmOGJhYS0wY2I0LTQwZjctOTIyMS0yODUxNmM4N2MxNjQ=
x-initiatingParticipantID: 123456
x-market: GSH

{
  "ItemList": [
    {
      "FacilityId": 530001,
      "ParticipantId": 13,
      "ServiceReference": "SR00000011",
      "STTMContractReference": "RS00000011",
      "ContractType": "TRADE",
      "StartDate": "2018-01-01",
      "EndDate": "2018-12-31"
    }
  ]
}
```

The JSON body properties for POST and GET requests is shown in the AEMO API portal and the transaction specifications in Sections 6 and 7.

For these transactions, you can also download a swagger file from AEMO's e-Hub API portal containing the RESTful API specification.

**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.
For free text data fields such as ServiceReference, do not include commas within a name/value pair.**



5.5 HTTPS response format

The submission response from the server consists of two parts: the response status code and the response body. The following table shows the response status codes returned.

Table 5 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" }	The 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



Code	Response body	Data condition	Description
	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 following table describes these fields.

Table 6 **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.

This is an example of a successful submission response:

```
OTHER HEADER INFORMATION TBC

Content-type: application/json

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



This is an example of an unsuccessful submission with HTTPS response code 422 with the transaction error code and error details.

OTHER HEADER INFORMATION TBC

Content-type: application/json

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

This is an example of a successful report response.

OTHER HEADER INFORMATION TBC

Content-type: application/json

```
{
  "data": [
    {
      "AuctionTransactionId": 10001,
      "AuctionDate": "2018-05-01T00:00:00",
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ParticipantId": "_13",
      "ParticipantName": "Star Energy",
      "ServiceReference": "SR00000001",
      "ReceiptPointId": 1001,
      "ReceiptPointName": "Echuca",
      "DeliveryPointId": 2001,
      "DeliveryPointName": "Melbourne",
      "AuctionQuantityWon": 100,
      "GasDate": "2018-05-02T00:00:00",
      "ProductPrice": 3.15,
      "LastUpdated": "2018-05-01T00:00:00"
    }
  ],
  "errors": null
}
```

For the complete list of transaction code errors, see Appendix A [Validation error codes](#).



6 DATA SUBMISSION TRANSACTIONS

This section specifies the JSON message format, validation rules, and timing of submissions used by facility operators and auction participants to submit data to AEMO’s Capacity [Trading Transfer](#) Platform and Day-Ahead Auction market systems.

6.1 Contract Details

6.1.1 Description

Transaction name	CONTRACT_DETAILS
Purpose	Provide a list of valid shipper contracts for a facility.
Submission cut-off time	Ad hoc whenever contract details change.
Required from	Facility operators
URL	TBC
Method	POST
Notes	<p>Each submission must contain the full set of shipper contracts that are valid beyond the submission date in accordance with the Procedures.</p> <p>On submission of this data, the system replaces all contract details previously submitted by the facility operator with the contents of the new submission.</p> <p>This information is used by shippers to select an appropriate contract for a capacity product prior to trading.</p>

6.1.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
FacilityId	The unique AEMO defined Facility identifier.	Yes	int	Yes	530001
ParticipantId	The unique AEMO defined Participant identifier.	Yes	String(20) int	Yes	13
ServiceReference	The service reference issued by the facility operator.	Yes	String(255)	Yes	SR00000001



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
ServiceReferenceDescription	Brief description of the service reference.	No	String (255)	No	
STTMContractReference	The STTM contract reference number for the registered facility service associated with the service reference. Mandatory where there is an associated STTM contract reference.	No	String (255)	No	RS0000011
ContractType	Indicates if a contract can be used for capacity trades, auctions or both. Valid values: TRADE - contract can only be used to trade capacity. AUCTION - contract can only be used to bid at auction. ALL - contract can be used to trade capacity and bid at auction.	Yes	String (7)	No	TRADE; AUCTION; ALL
StartDate	Effective start date of the contract, in ISO 8601 date format (YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss). Timestamps are ignored.	Yes	datetime	No	2018-01-01
EndDate	Effective end date of the contract, in ISO 8601 date format (YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss). Timestamps are ignored.	Yes	datetime	No	2018-12-31

6.1.3 Validation rules

Field	Validation
FacilityId	Must be a valid value in the AEMO system. Submissions must only contain Facility Ids operated by the reporting entity.
ParticipantId	Must be a valid value in the AEMO system. Refer to the list of valid registered participant ID's published by AEMO.
STTMContractReference	Must be a valid value in the AEMO STTM system.
ContractType	Must be a value from the defined list of valid values.



Field	Validation
StartDate	Must be less than or equal to EndDate. Must conform to the date format YYYY-MM-DD; <u>or YYYY-MM-DDThh:mm:ss</u>
EndDate	Must be equal to or greater than StartDate. Must be greater than current date. Must conform to the date format YYYY-MM-DD; <u>or YYYY-MM-DDThh:mm:ss.</u>

6.1.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information:

Figure 3 JSON message format

```
{
  "ItemList": [
    {
      "FacilityId": 530001,
      "ParticipantId": "13",
      "ServiceReference": "SR00000011",
      "ServiceReferenceDescription": "ID for service in easterly direction.",
      "STTMContractReference": "RS00000011",
      "ContractType": "TRADE",
      "StartDate": "2018-01-01",
      "EndDate": "2018-12-31"
    },
    {
      "FacilityId": 530001,
      "ParticipantId": "14",
      "ServiceReference": "SR00000022",
      "ServiceReferenceDescription": " ID for service in westerly direction.",
      "STTMContractReference": "RS00000022",
      "ContractType": "ALL",
      "StartDate": "2018-01-01",
      "EndDate": "2018-12-31"
    }
  ]
}
```



6.2 Capacity Transfer Status

6.2.1 Description

Transaction name	CAPACITY_TRANSFER_STATUS
Purpose	Provide a status of capacity transfer for each capacity transfer notice.
Submission cut-off time	<p>Harmonised times:</p> <p>By 2:00 pm daily for day-ahead products.</p> <p>By 9:30 pm daily for forward traded products.</p> <p>Note: These times are extended by one hour when the capacity transfer delay process is initiated by AEMO.</p> <p>Non-harmonised times:</p> <p>By 12:30 pm daily for day-ahead products (extended by one hour when the capacity transfer delay process is initiated by AEMO).</p> <p>By 9:30 pm daily for forward traded products (extended by two hours when the capacity transfer delay process is initiated by AEMO).</p>
Required from	Facility operators
URL	TBC
Method	POST
Notes	<p>Each submission must contain the full set of capacity transfer records provided by AEMO in the Capacity Transfer Notice.</p> <p>Facility operators are responsible for pro-rating capacity quantities where applicable i.e. if there is a shipper capacity shortfall.</p> <p><u>Facility operators may continue to submit this transaction beyond the cut-off time for the purposes of updating the invalid quantity and reason.</u></p> <p><u>Changes to day ahead capacity transfer transaction status and confirmed capacity quantity will be ignored after the day ahead transfer cut-off time.</u></p> <p><u>Changes to forward traded capacity transaction status and confirmed capacity quantity will be accepted for up to 24 hours after the forward traded capacity transfer cut-off time.</u></p>



6.2.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
CapacityTransferId	Unique capacity transaction identifier. This must match a capacity transaction identifier in the Capacity Transfer Notice issued by AEMO on the same day.	Yes	int	Yes	10001
TransactionStatus	Status of capacity transfer in the facility operator system. Valid values: - TRANSFERRED - PARTIAL - REJECTED - PENDING	Yes	String (11)	No	TRANSFERRED; PARTIAL; REJECTED; PENDING
ConfirmedCapacityQuantity	The capacity quantity transferred in the facility operator system, in GJ. This field is mandatory when TransactionStatus = TRANSFERRED, <u>PENDING</u> or PARTIAL. <u>This is a signed value (+/-).</u>	Conditional	int	No	96
Reason	Reason for rejection or partial transfer. This field is mandatory when TransactionStatus = PARTIAL, PENDING or REJECTED. Valid values: - BUYER_DELIVERY_FAULT - SELLER_DELIVERY_FAULT - SYSTEM_ISSUE	Conditional	String (22)	No	BUYER_DELIVERY_FAULT; SELLER_DELIVERY_FAULT; SYSTEM_ISSUE
<u>InvalidQuantity</u>	<u>Invalid quantity to indicate the amount of a short sell or amount that a buyer could not accept due to incorrect contract. This field is mandatory when TransactionStatus = PENDING, PARTIAL or REJECTED.</u>	<u>Conditional</u>	<u>int</u>	<u>No</u>	<u>30</u>



6.2.3 Validation rules

Field	Validation
CapacityTransferId	<p>Must be a valid value in the AEMO system.</p> <p>Submission must have a record for each capacity transfer identifier in the corresponding Capacity Transfer Notice issued by AEMO.</p> <p>The reporting entity must be the owner of the facility linked to the CapacityTransferId.</p>
TransactionStatus	<p>Must be a value from the defined list of valid values.</p>
ConfirmedCapacityQuantity	<p>Mandatory field when TransactionStatus = TRANSFERRED, <u>PENDING</u> or PARTIAL.</p> <p><u>Sign (+/-) must match the OverallQuantityChange reported in the Capacity Transfer Notice.</u></p> <p><u>Sum of the aggregated ConfirmedCapacityQuantity for each receipt and delivery zone pairing must equal 0.</u></p>
Reason	<p>Mandatory field when TransactionStatus = PARTIAL, PENDING or REJECTED.</p> <p>Must be a value from the defined list of valid values.</p>
<u>InvalidQuantity</u>	<p><u>Mandatory field when TransactionStatus = PARTIAL, PENDING or REJECTED.</u></p> <p><u>Must be < Absolute value(ConfirmedCapacityQuantity).</u></p>



6.2.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information

Figure 4 JSON message format

```
{
  "ItemList": [
    {
      "CapacityTransferId": 10001,
      "TransactionStatus": "TRANSFERRED",
      "ConfirmedCapacityQuantity": 345,
      "Reason": null,
      "InvalidQuantity": 45
    },
    {
      "CapacityTransferId": 10002,
      "TransactionStatus": "PARTIAL",
      "ConfirmedCapacityQuantity": 296,
      "Reason": "SELLER_DELIVERY_FAULT",
      "InvalidQuantity": 45
    }
  ]
}
```

6.3 Auction Quantities

6.3.1 Description

Transaction name	AUCTION_QUANTITIES
Purpose	Provide the auction quantities available for the day ahead auction.
Submission cut-off time	<p>Harmonised time: By 4:30 pm daily on D-1. The capacity auction for gas day D is run on gas day D-1. Note: This time may be extended by two hours when the auction delay process is initiated by AEMO. Please refer to the Procedures for full description of the delay process.</p> <p>Non-harmonised time: By 5:30 pm daily on D-1. The capacity auction for gas day D is run on gas day D-1. Note: This time may be extended by two hours when the auction delay process is initiated by AEMO. Please refer to the Procedures for full description of the delay process.</p>
Required from	Facility operators



URL	TBC
Method	POST
Notes	<p>A submission may include one or more facilities. A full set of product components must be provided for each facility included in a submission. For example, if two facilities are included in one submission, one facility has a full set of limits specified and the other does not, the entire submission will be rejected.</p> <p>If multiple submissions are received by AEMO, the data received in the latest submission for each facility prior to the cut-off time is used as input into the auction.</p>

6.3.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
AuctionDate	The date of the auction run, in ISO 8601 date format (YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss). <u>Timestamps are ignored.</u>	Yes	datetime	Yes	2018-03-01
GasDate	The gas date that the auction quantities are valid for, in ISO 8601 date format (YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss). <u>Timestamps are ignored.</u>	Yes	datetime	Yes	2018-03-01
FacilityId	The unique AEMO defined Facility identifier.	Yes	int	Yes	530001
LimitId	The unique AEMO defined Limit identifier. Limit is the collective term used to represent all the product components - receipt point, delivery point, zone, or pipeline segment. <u>The Limit identifier refers to the Zone Id, Service Point Id and Segment Id specified in the Transportation Service Point Register.</u>	Yes	int	Yes	3001



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
LimitType	Valid values: - FORWARD_HAUL_PIPELINE_SEGMENT - BACKHAUL_PIPELINE_SEGMENT - PIPELINE_RECEIPT_ZONE - PIPELINE_DELIVERY_ZONE - COMPRESSION_RECEIPT_ZONE - COMPRESSION_DELIVERY_ZONE - FORWARD_HAUL_RECEIPT_POINT - FORWARD_HAUL_DELIVERY_POINT - BACKHAUL_RECEIPT_POINT - BACKHAUL_DELIVERY_POINT - COMPRESSION_RECEIPT_POINT - COMPRESSION_DELIVERY_POINT	Yes	String (16)	No	PIPELINE_RECEIPT_ZONE
LimitQuantity	The quantity associated with the limit in GJ.	Yes	int	No	230
TransitionalRightsQuantity	The quantity of nominations against transitional firm (grandfathered) rights in GJ.	No	int	No	120
OperationalOverride	Valid values: - YES - NO	Yes	String (3)	No	YES; NO

6.3.3 Validation rules

Field	Validation
AuctionDate	Must conform to the date format YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss. Must be equal to current date.
GasDate	Must conform to the date format YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss. Must be equal to current date + 1.
FacilityId	Must be a valid value in the AEMO system. The reporting entity must be the facility operator of the facility at the time of the submission.



Field	Validation
LimitId	Must be a valid value in the AEMO system. Refer to the list of valid connection point IDs, zone IDs and pipeline segment IDs published by AEMO. Limit must be registered to the reporting entity. Submission must contain a limit record for each product segment associated with the facility.
LimitType	Must match the limit type specified for the limit identifier in the AEMO system.
LimitQuantity	Must be greater than or equal to 0.
TransitionalRightsQuantity	Must be greater than or equal to 0.

OperationalOverride Must be a value from the defined list of valid values.



6.3.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information:

Figure 5 JSON message format

```
{
  "ItemList": [
    {
      "AuctionDate": "2018-03-01",
      "GasDate": "2018-03-02",
      "FacilityId": 530001,
      "LimitId": 3001,
      "LimitType": "RECEIPT_POINT",
      "LimitQuantity": 230,
      "TransitionalRightsQuantity": 200,
      "OperationalOverride": "NO"
    },
    {
      "AuctionDate": "2018-03-01",
      "GasDate": "2018-03-02",
      "FacilityId": 530001,
      "LimitId": 4001,
      "LimitType": "DELIVERY_POINT",
      "LimitQuantity": 44,
      "TransitionalRightsQuantity": 30,
      "OperationalOverride": "YES"
    }
  ]
}
```

6.4 Auction Settlement Quantities

6.4.1 Description

Transaction name	AUCTION_SETTLEMENT_QUANTITIES
Purpose	Provide the actual auction quantities and final nominations after the end of each gas day.
Submission cut-off time	By 1:00 pm on gas day D+1. Note: This is the preferred submission time, however data is accepted after this time. Please refer to the Procedures for detailed timing arrangements.
Required from	Facility operators



URL	TBC
Method	POST
Notes	<p>This information is required by AEMO for settlement purposes.</p> <p>If multiple submissions are received by AEMO, the data received in the latest submission prior to the cut-off time is used for indicative or final settlements.</p> <p>Auction quantity is used for settlements if data is not received by the cut-off time</p>

6.4.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
AuctionTransactionId	The unique AEMO defined auction transaction identifier.	Yes	int	Yes	10001
RevisedAuctionQuantity	The revised auction capacity quantity. This is used for settlements.	Yes	int	No	100
Reason	The reason for revised capacity quantity. Valid values: - PIPELINE_CONSTRAINED - FIRM_SHIPPER_RENOM	Conditional	String (21)	No	PIPELINE_CONSTRAINED; FIRM_SHIPPER_RENOM
FinalNominationQuantity	Final nomination quantity against auction quantity by the shipper.	Yes	int	No	100

6.4.3 Validation rules

Field	Validation
AuctionTransactionId	<p>Must be a valid value in the AEMO system.</p> <p>The reporting entity must be the owner of the facility at the time of the submission.</p> <p>Submission must have a corresponding record for each auction transaction identifier in the Auction Results issued by AEMO for the corresponding auction.</p>
RevisedAuctionQuantity	Must be greater than or equal to 0.



Field	Validation
Reason	Mandatory when RevisedAuctionQuantity is different to the AuctionQuantityWon reported in the AUCTION_RESULTS. Must be a value from the defined list of valid values.

FinalNominationQuantity Must be greater than or equal to 0.

6.4.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information.

Figure 6 JSON message format

```
{
  "ItemList": [
    {
      "AuctionTransactionId": 10001,
      "RevisedAuctionQuantity": 100,
      "Reason": null,
      "FinalNominationQuantity": 100
    },
    {
      "AuctionTransactionId": 10002,
      "RevisedAuctionQuantity": 300,
      "Reason": "PIPELINE_CONSTRAINED",
      "FinalNominationQuantity": 100
    }
  ]
}
```

6.5 Auction Service Curtailment Notice

NOTE: This transaction is specified under Part 18 of the Rules and has been temporarily included in this document for convenience. This transaction will be moved into the *Guide to Gas Bulletin Board Data Submissions* prior to this document being finalised.

6.5.1 Description

Transaction name	AUCTION_SERVICE_CURTAILMENT_NOTICE
Purpose	Provide AEMO with notice of an auction service curtailment on an auction facility during a gas day.



Submission cut-off time	Ad hoc
Required from	Facility operators
URL	TBC
Method	POST
Notes	

6.5.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
FacilityId	The unique AEMO defined BB Facility identifier.	Yes	int	Yes	530001
AuctionService	The auction service impacted by curtailment. Valid values: <ul style="list-style-type: none"> FORWARD_HAUL BACKHAUL COMPRESSION 	Yes	String (12)	Yes	FORWARD_HAUL; BACKHAUL; COMPRESSION
Curtailed	Flag to indicate curtailment. Valid values: <ul style="list-style-type: none"> YES NO 	Yes	String (3)	No	YES; NO
Material	Flag to indicate material curtailment. Valid values: <ul style="list-style-type: none"> YES NO 	Yes	String (3)	No	YES; NO
Description	Description of why the curtailment has occurred.	Yes	String (255)	No	
EffectiveDateTime	The date and time the curtailment is effective from, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	Yes	2018-05-01T12:23:45



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
GasDate	The gas date for which the auction service is curtailed, in ISO 8601 date format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.	Yes	datetime	Yes	2018-03-01

6.5.3 Validation rules

Field	Validation
FacilityId	Must be a valid value in the Transportation Facility Register published by AEMO. The reporting entity must be the owner of the facility at the time of the submission.
AuctionService	Must be a value from the defined list of valid values.
Curtailed	Must be a value from the defined list of valid values.
Material	Must be a value from the defined list of valid values.
EffectiveDatetime	Must conform to the datetime format yyyy-mm-ddThh:mm:ss.
GasDate	Must conform to the date format yyyy-mm-dd or YYYY-MM-DDThh:mm:ss. Must be equal to or greater than current date.



6.5.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information.

Figure 7 JSON message format

```
{
  "ItemList": [
    {
      "FacilityId": 10001,
      "AuctionService": "FORWARD_HAUL",
      "Curtailed": "YES",
      "Material": "YES",
      "Description": "Unplanned outage",
      "EffectiveDateTime": "2018-05-01T12:23:45",
      "GasDate": "2018-05-01"
    },
    {
      "FacilityId": 10002,
      "AuctionService": "BACKHAUL",
      "Curtailed": "NO",
      "Material": "NO",
      "Description": "Issue resolved",
      "EffectiveDateTime": "2018-05-01T15:23:45",
      "GasDate": "2018-05-01"
    }
  ]
}
```

6.6 Zone Curtailment Information ~~Rejected Nominations~~

6.6.1 Description

Transaction name	<u>ZONE_CURTAILMENT_INFORMATION</u> REJECTED_NOMINATIONS
Purpose	Provide AEMO with notice of <u>curtailed shipper nominations</u> rejected nominations against secondary firm rights.
Submission cut-off time	Ad hoc
Required from	Facility operators
URL	TBC



Method	POST
Notes	

6.6.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
FacilityId	The unique AEMO defined Facility identifier.	Yes	int	Yes	530001
ServicePointId	The unique identifier of the service point.	Yes	int	Yes	3001
GasDate	The gas date for which the nomination was curtailed rejected , in ISO 8601 date format (YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss). <u>Timestamps are ignored.</u>	Yes	datetime	Yes	2018-03-01
Curtailed Rejected Quantity	The quantity of the curtailed rejected nomination.	Yes	int	No	455

6.6.3 Validation rules

Field	Validation
FacilityId	Must be a valid value in the Transportation Facility Register published by AEMO. The reporting entity must be the owner of the facility at the time of the submission.
ServicePointId	Must be a valid value in the Transportation Service Point Register published by AEMO. ServicePoint must be registered to the reporting entity at the time of the submission.
GasDate	Must conform to the date format YYYY-MM-DD <u>or</u> YYYY-MM-DDThh:mm:ss.
Curtailed Rejected Quantity	Must be greater than or equal to 0.



6.6.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information.

Figure 8 JSON message format

```
{
  "ItemList": [
    {
      "FacilityId": 10001,
      "ServicePointId": 3001,
      "GasDate": "2018-05-01",
      "CurtailedRejectedQuantity": 455
    },
    {
      "FacilityId": 10001,
      "ServicePointId": 3002,
      "GasDate": "2018-05-01",
      "CurtailedRejectedQuantity": 233
    }
  ]
}
```

6.7 Auction Bid Profile

6.7.1 Description

<u>Transaction name</u>	<u>AUCTION_BID_PROFILE</u>
<u>Purpose</u>	<u>Allows auction participants to submit bids for the Day Ahead Auction.</u>
<u>Submission cut-off time</u>	<p><u>Harmonised time:</u> By 5:00 pm daily on D-1. The auction for CBU capacity for gas day D is run on gas day D-1. <u>Note: This time is extended by two hours when the auction delay process is initiated by AEMO.</u></p> <p><u>Non-harmonised time:</u> By 6:00 pm daily on D-1. The auction for CBU capacity for gas day D is run on gas day D-1. <u>Note: This time is extended by two hours when the auction delay process is initiated by AEMO.</u></p>
<u>Required from</u>	<u>Auction participants</u>
<u>URL</u>	TBC



<u>Method</u>	<u>POST</u>
<u>Notes</u>	<p>Multiple bids may be submitted in a single bid profile. However, all bids must pass validation otherwise the entire transaction will be rejected.</p> <p>The latest bid profile submission will be used as the overall current bidding position for the specified date range.</p>

6.7.2 Data fields

6.7.2.1 Top level fields/object

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>FromGasDate</u>	The first gas date of the bid profile, in ISO 8601 datetime format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-03-01</u>
<u>ToGasDate</u>	The last gas date of the bid profile, in ISO 8601 datetime format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-03-10</u>
<u>Bids</u>	<p>One or more bids may be submitted with each bid profile submission. A bid is comprised of the following:</p> <ul style="list-style-type: none"> <u>Products (one or more)</u> <u>Steps (up to ten)</u> 		<u>JSON Object</u>		

6.7.2.2 Products

<u>Object Name</u>	<u>Products</u>
--------------------	-----------------



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>ReceiptPointId</u>	The unique AEMO defined Receipt Point identifier. This is the point where gas is injected into the pipeline.	Yes	int	Yes	30001
<u>ReceiptPointDWGMCompanyIdReference</u>	The DWGM MP Company ID associated with the accreditation for a DWGM integrated Receipt Point.	Conditional	int	No	123
<u>ReceiptPointDWGM MIRNReference</u>	The DWGM MIRN associated with the accreditation for a DWGM integrated Receipt Point.	Conditional	String (50)	No	200001PC
<u>DeliveryPointId</u>	The unique AEMO defined Delivery Point identifier. This is the point where gas is withdrawn from the pipeline.	Yes	int	Yes	30002
<u>DeliveryPointDWGMCompanyIdReference</u>	The DWGM MP Company ID associated with the accreditation for a DWGM integrated Delivery Point.	Conditional	int	No	123
<u>DeliveryPointDWGM MIRNReference</u>	The DWGM MIRN associated with the accreditation for a DWGM integrated Delivery Point.	Conditional	String (50)	No	200002PC
<u>ServiceReference</u>	The service reference issued by the facility operator for the Facility that the Receipt and Delivery Points are related to.	Yes	String (255)	No	SR000001

6.7.2.3 Steps

<u>Object Name</u>	<u>Steps</u>				
<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>CumulativeStepQuantity</u>	The cumulative bid step quantity.	Yes	int	Yes	123
<u>StepPrice</u>	The bid price.	Yes	Number	Yes	4.2032



6.7.3 Validation rules

Field	Validation
<u>FromGasDate</u>	<p><u>Must conform to the date format YYYY-MM-DD or YYYY-MM-DDThh:mm:ss.</u></p> <p><u>Must be equal to or greater than current date + 1</u></p> <p><u>If equal to current date + 1, submission time must be before the auction bid cut-off time</u></p> <p><u>Must be equal to or less than today + 14</u></p>
<u>ToGasDate</u>	<p><u>Must conform to the date format YYYY-MM-DD or YYYY-MM-DDThh:mm:ss.</u></p> <p><u>Must be equal to or greater than FromGasDate</u></p> <p><u>Must be equal to or less than today + 14 (configurable)</u></p>
<u>Products</u>	<u>Must specify at least one product per bid.</u>
<u>ReceiptPointId</u>	<u>Must be a valid value in the list of registered service points for the CTP and DAA.</u>
<u>ReceiptPointDWGMCompanyIdReference</u>	<p><u>Mandatory when Receipt Point is a DWGM interface point.</u></p> <p><u>Must match the DWGM Company ID of the submitting participant or the DWGM Company ID of the <u>appointing DWGM MP</u> for the submitting participant.</u></p>
<u>ReceiptPointDWGMMIRNReference</u>	<p><u>Mandatory when Receipt Point is a DWGM interface point.</u></p> <p><u>Must match the MIRN associated with the Receipt Point.</u></p> <p><u>A DWGM accreditation must exist for the <u>ReceiptPointDWGMCompanyIdReference</u> and <u>ReceiptPointDWGMMIRNReference</u> combination, for the gas date range specified.</u></p>
<u>DeliveryPointId</u>	<p><u>Must be a valid value in the list of registered service points for the CTP and DAA.</u></p> <p><u>Must belong to the same Facility as the ReceiptPointId.</u></p> <p><u>Must be a valid matching value for the ReceiptPointId specified.</u></p>
<u>DeliveryPointDWGMCompanyIdReference</u>	<p><u>Mandatory when Delivery Point is a DWGM interface point.</u></p> <p><u>Must match the DWGM Company ID of the submitting participant or appointing DWGM MP.</u></p>
<u>DeliveryPointDWGMMIRNReference</u>	<p><u>Mandatory when Delivery Point is a DWGM interface point.</u></p> <p><u>Must match the MIRN associated with the Delivery Point.</u></p> <p><u>A DWGM accreditation must exist for the <u>DeliveryPointDWGMCompanyIdReference</u> and <u>DeliveryPointDWGMMIRNReference</u> combination, for the gas date range specified.</u></p>



<u>Field</u>	<u>Validation</u>
<u>ServiceReference</u>	<u>Must be valid for the gas date specified.</u> <u>Must be valid for the submitter.</u> <u>Must be valid for the Facility associated with the receipt/delivery point pair.</u>
<u>Steps</u>	<u>Must specify at least one price/quantity step.</u> <u>Can only specify a maximum of 10 steps.</u> <u>Total bid quantity must be equal to or less than 100,000 GJ.</u>
<u>StepPrice</u>	<u>Must be equal to or greater than minimum step price (configurable - \$0 initially).</u> <u>Must be equal to or less than maximum step price (configurable -\$50 initially).</u> <u>Must decrease with each step.</u> <u>Must be no more than 4 decimal places.</u>
<u>CumulativeStepQuantity</u>	<u>First step must be greater than 0.</u> <u>Cumulative quantity must increase with each step.</u> <u>Cumulative quantity must be equal to or less than the maximum bid quantity (configurable – initially set to 500,000)</u>



6.7.4 Data submission example

The JSON format example only illustrates information relating to the transaction data, and does not include header information.

Figure 9 JSON message format

```
{
  "ItemList":
  [
    {
      "FromGasDate": "2018-05-01T00:00:00",
      "ToGasDate": "2018-05-01T00:00:00",
      "Bids":
      [
        {
          "Products":
          [
            {
              "ReceiptPointId": 3001,
              "ReceiptPointDWGMCompanyIdReference": 123,
              "ReceiptPointDWGMIRNReference": "200001PC",
              "DeliveryPointId": 3002,
              "DeliveryPointDWGMCompanyIdReference": null,
              "DeliveryPointDWGMIRNReference": null,
              "ServiceReference": "SR00001"
            },
            {
              "ReceiptPointId": 3003,
              "ReceiptPointDWGMCompanyIdReference": 345,
              "ReceiptPointDWGMIRNReference": "500001PC",
              "DeliveryPointId": 3004,
              "DeliveryPointDWGMCompanyIdReference": null,
              "DeliveryPointDWGMIRNReference": null,
              "ServiceReference": "SR00022"
            }
          ],
          "Steps":
          [
            {
              "StepPrice": "5.33",
              "CumulativeStepQuantity": 100
            },
            {
              "StepPrice": "4.33",
              "CumulativeStepQuantity": 150
            },
            {
              "StepPrice": "3.33",
              "CumulativeStepQuantity": 200
            }
          ]
        }
      ]
    }
  ]
}
```



```
    {  
      "StepPrice": "2.33",  
      "CumulativeStepQuantity": 250  
    }  
  ]  
}  
]  
]  
]  
]  
]  
]
```



7 REPORT TRANSACTIONS

This section specifies the JSON message format for private report data that facility operators and trading participants retrieve from AEMO’s Capacity [Trading-Transfer](#) Platform and Day-Ahead Auction market systems.

7.1 Capacity Transfer Notice

7.1.1 Description

Transaction name	CAPACITY_TRANSFER_NOTICE
Purpose	Provide the capacity quantity adjustment required for a shipper contract.
Visibility	Private
Recipients	Facility operators
Generated at	<p>Harmonised times:</p> <p>Between 12:30 pm and 1:00 pm daily for day-ahead products.</p> <p>Between 7:00 pm and 7:30 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to one hour when the capacity transfer delay process is initiated by AEMO.</p> <p>Non-harmonised times:</p> <p>Between 11:00 am and 11:30 am daily for day-ahead products.</p> <p>Between 7:00 pm and 7:30 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to one hour when the capacity transfer delay process is initiated by AEMO.</p>
Updated at	<p>The capacity transfer notice is updated if the capacity cannot be transferred in AEMO systems for STTM and DWGM products.</p> <p>Harmonised times:</p> <p>Between 12:30 pm and 2:30 pm daily for day-ahead products.</p> <p>Between 7:00 pm and 10:00 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to one hour when the capacity transfer delay process is initiated by AEMO.</p> <p>Non-harmonised times:</p> <p>Between 11:00 pm and 2:30 pm daily for day-ahead products.</p> <p>Between 7:00 pm and 10:00 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to one hour when the capacity transfer delay process is initiated by AEMO.</p>



URL	TBC
Method	GET
Notes	<p>Facility operators use this data to update the capacity quantity on the relevant shipper contracts in their own systems.</p> <p>Each published version of the data contains both the incremental adjustment quantity and the cumulative/overall adjustment quantity that must be applied to a shipper's contracted capacity quantity, on the same day that this report is published.</p>

7.1.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
CapacityTransferId	The unique AEMO defined Capacity Transfer transaction identifier.	Yes	int	Yes	10001
FacilityId	The unique AEMO defined Facility identifier.	Yes	int	No	530001
FacilityName	The descriptive name of the Facility.	Yes	String (255)	No	VIC Pipeline
ParticipantId	The unique AEMO defined Participant identifier.	Yes	String(20) int	No	13
ParticipantName	The descriptive name of the Participant.	Yes	String (255)	No	Star Energy
ServiceReference	The service reference issued by the facility operator.	Yes	String (255)	No	SR00000001
STTMContractReference	The STTM registered facility service identifier (CRN) associated with the service reference.	No	String (255)	No	RS00011
DWGMAccreditationReference	The DWGM accreditation reference associated with the transfer.	No	String (255)	No	MIRN001



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
ReceiptPointId	The unique AEMO defined Receipt Point identifier. This is the point where gas is injected into the pipeline.	Yes	int	No	1001
ReceiptPointName	The descriptive name of the Receipt Point.	Yes	String (255)	No	Echuca
DeliveryPointId	The unique AEMO defined Delivery Point identifier. This is the point where gas is withdrawn from the pipeline.	Yes	int	No	2001
DeliveryPointName	The descriptive name of the Delivery Point.	Yes	String (255)	No	Melbourne
ReceiptZoneId	The unique AEMO defined Receipt Zone identifier.	Yes	int	No	3001
ReceiptZoneName	The descriptive name of the Receipt Zone.	Yes	String (255)	No	Echuca Zone
DeliveryZoneId	The unique AEMO defined Delivery Zone identifier.	Yes	int	No	4001
DeliveryZoneName	The descriptive name of the Delivery Zone.	Yes	String (255)	No	Melbourne Zone
GasDate	The gas date that the capacity change applies to, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-20T00:00:00
IncrementalQuantityChange	The incremental capacity quantity adjustment (GJ/day) to be applied to the service reference on the day of this notice is published for the gas date specified. This is a signed value (+/-).	Yes	int	No	-100



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
OverallQuantityChange	The overall capacity quantity adjustment (GJ/day) applied to the service reference on the day of this notice is published for the gas date specified. This is a signed value (+/-).	Yes	int	No	-100
LastChanged	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-01T12:23:45

7.1.3 Filters

~~You can filter reports~~ This report can be filtered by:

- Facility Id (multiple values)
- From Gas Date
- To Gas Date
- TBC



7.1.4 Report example

The JSON format example only illustrates information relating to the report data and does not include header information.

Figure 9 Figure 10 JSON message format

```
{
  "data": [
    {
      "CapacityTransferId": 10001,
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ParticipantId": "13",
      "ParticipantName": "Star Energy",
      "ServiceReference": "SR00000001",
      "STTMContractReference": "RS0001",
      "DWCMAccreditationReference": "MIRN001",
      "ReceiptPointId": 1001,
      "ReceiptPointName": "Echuca",
      "DeliveryPointId": 2001,
      "DeliveryPointName": "Melbourne",
      "ReceiptZoneId": 3001,
      "ReceiptZoneName": "Echuca Zone",
      "DeliveryZoneId": 4001,
      "DeliveryZoneName": "Melbourne Zone",
      "GasDate": "2018-05-20T00:00:00",
      "IncrementalQuantityChange": 100,
      "OverallQuantityChange": 100,
      "LastChanged": "2018-05-01T12:23:45"
    },
    {
      "CapacityTransferId": 10002,
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ParticipantId": "13",
      "ParticipantName": "Star Energy",
      "ServiceReference": "SR00000002",
      "STTMContractReference": "RS0002",
      "DWCMAccreditationReference": null,
      "ReceiptPointId": 1002,
      "ReceiptPointName": "Mildura",
      "DeliveryPointIdDeliveryPointID": 2002,
      "DeliveryPointName": "Echuca",
      "ReceiptZoneId": 3002,
      "ReceiptZoneName": "Mildura Zone",
      "DeliveryZoneId": 4002,
      "DeliveryZoneName": "Echuca Zone",
      "GasDate": "2018-05-25T00:00:00",
      "IncrementalQuantityChange": -200,
      "OverallQuantityChange": 0,
    }
  ]
}
```



```

    "LastChanged": "2018-05-01T12:23:45"
  }
],
"errors": null
}

```

7.2 Auction Results

7.2.1 Description

Transaction name	AUCTION_RESULTS
Purpose	Provide the capacity quantity won by shippers at auction.
Visibility	Private
Recipients	Facility operators and AuctionTrading participants
Generated at	<p>Harmonised time: Between 5:00 pm and 5:30 pm daily. Note: These times are extended by two hours when the auction delay process is initiated by AEMO.</p> <p>Non-harmonised time: Between 6:00 pm and 6:30 pm daily. Note: These times are extended by two hours when the auction delay process is initiated by AEMO.</p>
Updated at	N/A
URL	TBC
Method	GET
Notes	Facility operators use this data to assign capacity of auction services to shippers.

7.2.2 Data fields

7.2.2.1 Auction Run

<u>Object Name</u>	AuctionRun
--------------------	------------



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>AuctionDate</u>	<u>The date of the auction, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-05-01T00:00:00</u>
<u>GasDate</u>	<u>The gas date for which capacity is assigned to the shipper, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-05-02T00:00:00</u>
<u>AuctionRunDatetime</u>	<u>The date and time that the auction was run.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-05-02T00:00:00</u>
<u>ParticipantCode</u>	<u>The unique participant code.</u>	<u>Yes</u>	<u>String (20)</u>	<u>No</u>	<u>SE584</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T12:23:45</u>

7.2.2.2 Auction Results

<u>Object Name</u>	AuctionResults
--------------------	----------------

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>AuctionTransactionId</u>	<u>The unique identifier of the auction transaction.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>10001</u>
<u>AuctionDate</u>	<u>The date of the auction run, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T00:00:00</u>
<u>FacilityId</u>	<u>The unique AEMO defined Facility identifier.</u>	<u>Yes</u>	<u>int</u>	<u>No</u>	<u>530001</u>
<u>FacilityName</u>	<u>The descriptive name of the Facility.</u>	<u>Yes</u>	<u>String (255)</u>	<u>No</u>	<u>VIC Pipeline</u>
<u>ParticipantId</u>	<u>The unique AEMO defined Participant identifier.</u>	<u>Yes</u>	<u>String(20) int</u>	<u>No</u>	<u>13</u>



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
ParticipantCode	The unique participant code.	Yes	String (20)	No	SE584
ParticipantName	The descriptive name of the Participant.	Yes	String (255)	No	Star Energy
ServiceReference	The service reference issued by the facility operator.	Yes	String (255)	No	SR00000001
ReceiptPointId	The unique AEMO defined Receipt Point identifier. This is the point where gas is injected into the pipeline.	Yes	int	No	1001
ReceiptPointName	The descriptive name of the Receipt Point.	Yes	String (255)	No	Echuca
RPDWGMReference	The DWGM accreditation reference associated with the Receipt Point.	No	String (255)	No	
DeliveryPointId	The unique AEMO defined Delivery Point identifier. This is the point where gas is withdrawn from the pipeline.	Yes	int	No	2001
DeliveryPointName	The descriptive name of the Delivery Point.	Yes	String (255)	No	Melbourne
DPDWGMReference	The DWGM accreditation reference associated with the Delivery Point.	No	String (255)	No	
AuctionQuantityWon	The capacity quantity won at auction (GJ/day) by the participant.	Yes	int	No	100
GasDate	The gas date for which capacity is assigned to the shipper, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-02T00:00:00
ProductPrice	The price of the auction product won at auction (\$/GJ) by the participant.	Yes	decimal(18,2)	No	3.15
LastChanged	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-01T12:23:45



7.2.3 Filters

~~You can filter reports~~ This report can be filtered by:

- Facility Id (multiple values)
- From Auction Date
- To Auction Date
- From Gas Date
- To Gas Date
- **TBC**



7.2.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 10 Figure 11 JSON message format

```

{
  "data": [
    {
      "AuctionTransactionId": 10001,
      "AuctionDate": "2018-05-01T00:00:00",
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ParticipantId": 13,
      "ParticipantName": "Star Energy",
      "ServiceReference": "SR00000001",
      "ReceiptPointId": 1001,
      "ReceiptPointName": "Echuca",
      "DeliveryPointId": 2001,
      "DeliveryPointName": "Melbourne",
      "AuctionQuantityWon": 100,
      "GasDate": "2018-05-02T00:00:00",
      "ProductPrice": 3.15,
      "LastChanged": "2018-05-01T12:23:45"
    },
    {
      "AuctionTransactionId": 10002,
      "AuctionDate": "2018-05-01T00:00:00",
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ParticipantId": 13,
      "ParticipantName": "Star Energy",
      "ServiceReference": "SR00000002",
      "ReceiptPointId": 1002,
      "ReceiptPointName": "Mildura",
      "DeliveryPointId": 2002,
      "DeliveryPointName": "Echuca",
      "AuctionQuantityWon": 45,
      "GasDate": "2018-05-02T00:00:00",
      "ProductPrice": 5.22,
      "LastChanged": "2018-05-01T12:23:45"
    }
  ],
  "errors": null
}

```



```
"AuctionDate": "2018-05-01T12:23:45",  
"GasDate": "2018-05-02T12:23:45",  
"AuctionRunDatetime": "2018-05-01T12:23:45",  
"ParticipantCode": "STAR",  
"LastChanged": "2018-05-01T12:23:45"  
  },  
],  
"AuctionResults":  
  [  
    {  
      "AuctionTransactionId": 10001,  
      "AuctionDate": "2018-05-01T00:00:00",  
      "FacilityId": 530001,  
      "FacilityName": "VIC Pipeline",  
      "ParticipantId": "13",  
      "ParticipantCode": "STAR",  
      "ParticipantName": "Star Energy",  
      "ServiceReference": "SR00000001",  
      "ReceiptPointId": 1001,  
      "ReceiptPointName": "Echuca",  
      "RPDWGMReference": "23 200001PC",  
      "DeliveryPointId": 2001,  
      "DeliveryPointName": "Melbourne",  
      "DPDWGMReference": null,  
      "AuctionQuantityWon": 100,  
      "GasDate": "2018-05-02T00:00:00",  
      "ProductPrice": 3.15,  
      "LastChanged": "2018-05-01T12:23:45"  
    },  
    {  
      "AuctionTransactionId": 10002,  
      "AuctionDate": "2018-05-01T00:00:00",  
      "FacilityId": 530001,  
      "FacilityName": "VIC Pipeline",  
      "ParticipantId": "13",  
      "ParticipantCode": "STAR",  
      "ParticipantName": "Star Energy",  
      "ServiceReference": "SR00000002",  
      "ReceiptPointId": 1002,  
      "ReceiptPointName": "Mildura",  
      "RPDWGMReference": "23 200001PC",  
      "DeliveryPointId": 2002,  
      "DeliveryPointName": "Echuca",  
      "DPDWGMReference": null,  
      "AuctionQuantityWon": 45,  
      "GasDate": "2018-05-02T00:00:00",  
      "ProductPrice": 5.22,  
      "LastChanged": "2018-05-01T12:23:45"  
    }  
  ]  
]
```



```

  },
  "errors": null
}

```

7.3 Shipper Capacity Transfer Notification

7.3.1 Description

Transaction name	SHIPPER_CAPACITY_TRANSFER_NOTIFICATION
Purpose	Provide confirmation to facility operator that shipper is notified of a capacity transfer outcome.
Visibility	Private
Recipients	Facility operators and Trading participants
Generated at	<p>Harmonised times:</p> <p>Between 12:30 pm and 2:30 pm daily for day-ahead products.</p> <p>Between 7:00 pm and 10:00 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to one hour when the capacity transfer delay process is initiated by AEMO.</p> <p>Non-harmonised times:</p> <p>Between 11:00 pm and 2:30 pm daily for day-ahead products.</p> <p>Between 7:00 pm and 10:00 pm daily for forward traded products.</p> <p>Note: The end times may be extended by up to two hours when the capacity transfer delay process is initiated by AEMO.</p>
Updated at	N/A
URL	TBC
Method	GET
Notes	<p>Failed capacity transfer can be due to:</p> <ul style="list-style-type: none"> Facility operator system failure preventing the capacity transfer in their system. Facility operator system rejects the capacity transfer due to an issue with the contract specified. AEMO system failure preventing the capacity transfer in the STTM or DWGM system. AEMO STTM or DWGM system rejects the capacity transfer due to an issue with the STTM registered facility service (CRN) or DWGM accreditation reference specified.



7.3.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
CapacityTransferId	The unique AEMO defined Capacity Transfer transaction identifier.	Yes	int	Yes	10001
GasDate	The gas date for the capacity change, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	Datetime	No	2018-05-02T00:00:00
ParticipantId	The unique AEMO defined Participant identifier.	Yes	String(20) int	No	13
ParticipantCode	The participant code used in the ETS.	Yes	String (20)	No	SE584
ParticipantName	The descriptive name of the Participant.	Yes	String (255)	No	Star Energy
FacilityId	The unique AEMO defined Facility identifier.	Yes	int	No	530001
FacilityName	The descriptive name of the Facility.	Yes	String (255)	No	VIC Pipeline
ServiceReference	The service reference issued by the facility operator.	Yes	String (255)	No	SR00000001
STTMContractReference	The STTM registered facility service identifier (CRN) associated with the service reference.	No	String (255)	No	RS00011
DWGMAccreditation Reference	The DWGM accreditation reference associated with the service reference.	No	String (255)	No	MIRN001
ReceiptPointId	The unique identifier of the Receipt Point as defined in the Transportation Service Point Register. This is the point where gas is injected into the pipeline.	Yes	int	No	2001



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
ReceiptPointName	The descriptive name of the Receipt Point as defined in the Transportation Service Point Register.	Yes	String (255)	No	Run 1
DeliveryPointId	The unique identifier of the Delivery Point as defined in the Transportation Service Point Register. This is the point where gas is withdrawn from the pipeline.	Yes	int	No	3001
DeliveryPointName	The descriptive name of the Delivery Point as defined in the Transportation Service Point Register.	Yes	String (255)	No	Run 5
ReceiptZoneId	The unique identifier of the Receipt Zone as defined in the Transportation Service Point Register.	Yes	int	No	4001
ReceiptZoneName	The descriptive name of the Receipt Zone as defined in the Transportation Service Point Register.	Yes	String (255)	No	REC Zone 1
DeliveryZoneId	The unique identifier of the Delivery Zone as defined in the Transportation Service Point Register.	Yes	int	No	5001
DeliveryZoneName	The descriptive name of the Delivery Zone as defined in the Transportation Service Point Register.	Yes	String (255)	No	DEL Zone 1
Status	The status of the capacity transfer. Valid values: - TRANSFERRED - PARTIAL - PENDING - REJECTED - CANCELLED	Yes	String (9)	Yes	TRANSFERRED PARTIAL PENDING REJECTED CANCELLED



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
System	The system that has processed the capacity transfer. Valid values: - FACILITY_OPERATOR - AEMO - AEMO_STTM - AEMO_DWGM	Yes	String (16)	Yes	FACILITY_OPERATOR AEMO AEMO_STTM AEMO_DWGM
Reason	The reason for REJECTED or CANCELLED capacity transfer. Valid values: - BUYER_DELIVERY_FAULT - SELLER_DELIVERY_FAULT - SYSTEM_ISSUE - MATCHING_RECORD_NOT_FOUND (specific to AEMO STTM and DWGM)	No	String (25)	Yes	BUYER_DELIVERY_FAULT SELLER_DELIVERY_FAULT SYSTEM_ISSUE MATCHING_RECORD_NOT_FOUND
TransactionCompleteFlag	Flag to indicate whether the capacity transfer process is completed. Valid values are Yes or No.	Yes	String (3)	No	Yes
OverallQuantityChange	The overall capacity quantity adjustment (GJ/day) applied to the relevant contracts for this transfer date and gas date. This is a signed value (+/-).	Yes	int	No	-345
LastChanged	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-01T12:23:45

7.3.3 Filters

~~You can filter reports~~ This report can be filtered by:

- From Gas Date
- To Gas Date ~~TBC~~



7.3.4 Report example

The JSON format example only illustrates information relating to the report data and does not include header information.

Figure 12 JSON message format

```
{
  "data": [
    {
      "CapacityTransferId": 10001,
      "GasDate": "2018-05-02T00:00:00",
      "ParticipantId": "13",
      "ParticipantCode": "SE584",
      "ParticipantName": "Star Energy",
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ServiceReference": "SR00000001",
      "STTMContractReference": "RS00011",
      "DWGMAccreditationReference": null,
      "ReceiptPointId": 1001,
      "ReceiptPointName": "Echuca",
      "DeliveryPointId": 2001,
      "DeliveryPointName": "Melbourne",
      "ReceiptZoneId": 3001,
      "ReceiptZoneName": "Echuca Zone",
      "DeliveryZoneId": 4001,
      "DeliveryZoneName": "Melbourne Zone",
      "Status": "TRANSFERRED",
      "System": "SERVICE_PROVIDER",
      "Reason": null,
      "TransactionCompletedFlag": "Yes",
      "OverallQuantityChange": -345,
      "LastChanged": "2018-05-01T12:23:45"
    },
    {
      "CapacityTransferId": 10002,
      "GasDate": "2018-05-02T00:00:00",
      "ParticipantId": "13",
      "ParticipantCode": "SE584",
      "ParticipantName": "Star Energy",
      "FacilityId": 530001,
      "FacilityName": "VIC Pipeline",
      "ServiceReference": "SR00000002",
      "STTMContractReference": "RS00022",
      "DWGMAccreditationReference": "MIRN002",
      "ReceiptPointId": 1001,
      "ReceiptPointName": "Echuca",
      "DeliveryPointId": 2001,
      "DeliveryPointName": "Melbourne",
      "ReceiptZoneId": 3001,
```



```

    "ReceiptZoneName": "Echuca Zone",
    "DeliveryZoneId": 4001,
    "DeliveryZoneName": "Melbourne Zone",
    "Status": "PENDING",
    "System": "SERVICE_PROVIDER",
    "Reason": "BUYER_INVALID_CONTRACT",
    "TransactionCompletedFlag": "Yes",
    "OverallQuantityChange": -345,
    "LastChanged": "2018-05-01T12:23:45"
  }
],
"errors": null
}

```

7.4 Registered Participants

7.4.1 Description

Transaction name	REGISTERED_PARTICIPANTS
Purpose	The report contains the registration details of all participants currently registered in the GSH, CTP and DAA markets.
Visibility	Public
Recipients	All
Generated at	Event triggered on creating or updating details of registered participant in the GSH market, and time triggered monthly at the beginning of each month.
Updated at	N/A
URL	TBC
Method	GET
Notes	



7.4.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
Market	The market in which the company is a participant, for example Gas Supply Hub or Gas Capacity Auction. Companies that participate in both markets have a separate row displayed for each market.	Yes	String (20)	Yes	Gas Supply Hub
ParticipantId	The unique identifier of the participant	Yes	String (20)	Yes	74
ParticipantCode	The participant code used in the Exchange Trading System (ETS)	Yes	String (20)	No	ES584
OrganisationName	Name of the organisation who has the ABN	Yes	String (80)	No	AGL
OrganisationCode	Unique code of the organisation	Yes	String (20)	No	AG256
TradingName	Trading name of the organisation	Yes	String (80)	No	AGL Hydro Partnership
HeadOfficeAddressLine1	The head office address of the organisation	No	String (80)	No	50 Collins St
HeadOfficeAddressLine2	The head office address of the organisation	No	String (80)	No	Melbourne
HeadOfficeAddressLine3	The head office address of the organisation	No	String (80)	No	VIC
HeadOfficeAddressLine4	The head office address of the organisation	No	String (80)	No	3001
PhoneNumber	The phone number of the organisation	No	String (80)	No	03 9658 7000
FaxNumber	The fax number for the organisation	No	String (80)	No	03 9658 7589
ABN	ABN of the organisation	No	String (20)	No	456874258



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
ARBN	ARBN of the organisation	No	String (20)	No	125874569
ACN	ACN of the organisation	No	String (20)	No	569845214
Classifications	The classification of the company in the GSH market, for example trading, view-only, facility operator etc.	Yes	String (255)	No	Trader, Reallocator, Facility Operator
<u>Market</u>	<u>The market in which the company is a participant, for example GSH, DAA, ALL.</u>	Yes	String (3)	No	GSH, DAA, ALL
<u>AgentId</u>	<u>The unique participant identifier of the agent appointed to trade on the participant's behalf.</u>	No	String (20)	No	123
<u>AgentName</u>	<u>Name of the agent organisation</u>	No	String (80)	No	Star Energy Pty Ltd
LastChanged	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-01T12:23:45

7.4.3 Filters

~~You can filter reports~~ This report can be filtered by:

- Market (multiple values) TBC



7.4.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 12 Figure 13 JSON message format

```
{
  "data": [
    {
      "Market": "Gas Supply Hub",
      "ParticipantId": "74",
      "ParticipantCode": "ES584",
      "OrganisationName": "AGL",
      "OrganisationCode": "AG256",
      "TradingName": "AGL Hydro Partnership",
      "HeadOfficeAddressLine1": "50 Collins St",
      "HeadOfficeAddressLine2": "Melbourne",
      "HeadOfficeAddressLine3": "VIC",
      "HeadOfficeAddressLine4": "3001",
      "PhoneNumber": "03 9658 7000",
      "FaxNumber": "03 9658 7589",
      "ABN": "456874258",
      "ARBN": "125874569",
      "ACN": "569845214",
      "Classifications": "Facility Operator",
      "Market": "ALL",
      "AgentId": 123,
      "AgentName": "Star Energy Pty Ltd",
      "LastChanged": "2018-05-01T12:23:45"
    },
    {
      "Market": "Gas Supply Hub",
      "ParticipantId": "56",
      "ParticipantCode": "ORRE",
      "OrganisationName": "Origin Energy Retail Ltd",
      "OrganisationCode": "ORIGINRETAIL",
      "TradingName": "Origin Energy Retail Ltd",
      "HeadOfficeAddressLine1": "Level 45",
      "HeadOfficeAddressLine2": "264-278 George Street",
      "HeadOfficeAddressLine3": "Sydney",
      "HeadOfficeAddressLine4": "NSW 2000",
      "PhoneNumber": "0295035209",
      "FaxNumber": "0292524066",
      "ABN": "22078868425",
      "ARBN": "",
      "ACN": "78868425",
      "Classifications": "Trader",
      "AgentId": 123,
      "AgentName": "Star Energy Pty Ltd",
      "Market": "GSH",
```



```

    "LastChanged": "2018-05-01T12:23:45"
  }
],
"errors": null
}

```

7.5 Capacity Transfer and Auction Notice

7.5.1 Description

Transaction name	CAPACITY_TRANSFER_AUCTION_NOTICE
Purpose	The report notifies participants when the market delay or cancellation process is triggered.
Visibility	Public
Recipients	All
Generated at	Event triggered by the market delay or cancellation process.
Updated at	N/A
URL	TBC
Method	GET
Notes	

7.5.2 Data fields

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
NoticeId	The unique identifier of the notice.	Yes	int	Yes	123
NoticeDate	The date and time of the notice.	Yes	datetime	No	2018-04-30T12:34:56



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
GasDate	The gas date that of the notice <u>applies to</u> , in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss). <u>This will be NULL for notices regarding forward trade capacity transfers.</u>	No <u>Yes</u>	datetime	No	2018-05-01T00:00:00
FacilityId	The unique AEMO defined Facility identifier.	No <u>Yes</u>	int	No	530001
FacilityName	The descriptive name of the Facility.	No <u>Yes</u>	String (255)	No	VIC Pipeline
Market	The market that has triggered the notice, for example CTP or DAA.	Yes	String (3)	Yes	CTP
NoticeType	The type of notice, for example Cancel or Delay for CTP, Exclude or Delay for DAA.	Yes	String (20)	No	Delay
Description	The description of the notice.	Yes	String (1000 <u>255</u>)	No	
LastChanged	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	2018-05-01T12:23:45

7.5.3 Filters

This report can be filtered~~You can filter reports~~ by:

- From Gas Date
- To Gas Date
- Facility Id (multiple values)
- Market (multiple values)
- TBC



7.5.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 13 Figure 14 JSON message format

```
{
  "data": [
    {
      "NoticeId": 123,
      "NoticeDate": "2018-04-30T12:34:56",
      "GasDate": "2018-05-01T00:00:00",
      "FacilityId": null,
      "FacilityName": null,
      "Market": "CTP",
      "NoticeType": "Delay",
      "Description": "Market has been delayed by 2 hours due to system issue",
      "LastChanged": "2018-05-01T12:23:45"
    }
  ],
  "errors": null
}
```

7.6 Transportation Facility Register

7.6.1 Description

<u>Transaction name</u>	<u>TRANSPORTATION FACILITY REGISTER</u>
<u>Purpose</u>	The report contains a list of all the facilities currently registered under Part 24 of the Rules, for the capacity trading and day ahead auction.
<u>Visibility</u>	<u>Public</u>
<u>Recipients</u>	<u>All</u>
<u>Generated at</u>	<ol style="list-style-type: none"> <u>1. Event triggered on creating or updating details of a registered facility in the CTP and DAA markets</u> <u>2. Time triggered monthly at the beginning of each month.</u>
<u>Updated at</u>	<u>N/A</u>
<u>URL</u>	<u>TBC</u>



<u>Method</u>	<u>GET</u>
<u>Notes</u>	

7.6.2 Data fields

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>FacilityId</u>	<u>The unique AEMO defined Facility identifier.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>530001</u>
<u>FacilityName</u>	<u>The name of the Facility.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>MAPS</u>
<u>FacilityDescription</u>	<u>The descriptive name of the Facility.</u>	<u>Yes</u>	<u>String (400)</u>	<u>No</u>	<u>Moomba to Adelaide Pipeline System</u>
<u>FacilityType</u>	<u>The type of facility, for example pipe or compressor.</u>	<u>Yes</u>	<u>String (20)</u>	<u>No</u>	<u>Pipeline</u>
<u>OperatorId</u>	<u>The unique identifier of the Facility Operator that operates the facility.</u>	<u>Yes</u>	<u>int</u>	<u>No</u>	<u>584</u>
<u>OperatorName</u>	<u>The descriptive name of the participant.</u>	<u>Yes</u>		<u>No</u>	<u>Epic</u>
<u>EffectiveDate</u>	<u>The effective date of the facility, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	<u>The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-02-01T06:20:34</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-02-02T08:20:00</u>



7.6.3 Filters

This report can be filtered by:

- Facility Id (multiple values)
- Operator Id (multiple values)

7.6.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 15 JSON message format

```
{
  "data": [
    {
      "FacilityId": 530001,
      "FacilityName": "MAPS",
      "FacilityDescription": "Moomba to Adelaide Pipeline System",
      "FacilityType": "Pipeline",
      "OperatorId": 584,
      "OperatorName": "Epic Energy",
      "EffectiveDate": "2018-03-01T00:00:00",
      "VersionDatetime": "2018-02-01T12:23:45",
      "LastChanged": "2018-02-02T12:23:45"
    },
    {
      "FacilityId": 540001,
      "FacilityName": "MSP",
      "FacilityDescription": "Moomba to Sydney Pipeline",
      "FacilityType": "Pipeline",
      "OperatorId": 584,
      "OperatorName": "APA",
      "EffectiveDate": "2018-03-01T00:00:00",
      "VersionDatetime": "2018-02-01T12:23:45",
      "LastChanged": "2018-02-02T12:23:45"
    }
  ],
  "errors": null
}
```

7.7 Transportation Service Point Register

7.7.1 Description

Transaction name	TRANSPORTATION SERVICE POINT REGISTER
------------------	---------------------------------------



<u>Purpose</u>	The report contains list of all the service points (receipt and delivery points), zones and pipeline segments currently registered under Part 24 of the Rules, for the capacity tradingtransfer and day ahead auction.
<u>Visibility</u>	Public
<u>Recipients</u>	All
<u>Generated at</u>	<ol style="list-style-type: none"> 1. Event triggered on creating or updating details of a service point in the CTP and DAA markets 2. Time triggered monthly at the beginning of each month
<u>Updated at</u>	N/A
<u>URL</u>	TBC
<u>Method</u>	GET
<u>Notes</u>	

7.7.2 Data fields

7.7.2.1 Zones

<u>Object Name</u>	Zones
--------------------	-------

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>Zoneld</u>	The unique identifier of the zone. This is referred to as a Limit Id in the <i>Auction Quantities</i> data submission transaction.	Yes	int	Yes	123
<u>ZoneName</u>	The descriptive name of the zone.	Yes	String (100)	No	Zone 1
<u>ZoneType</u>	The type of zone, for example pipeline receipt, pipeline delivery, compression receipt or compression delivery.	Yes	String (20)	No	Pipeline Receipt



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>ZoneDescription</u>	<u>The description of the zone.</u>	<u>Yes</u>	<u>String (255)</u>	<u>No</u>	
<u>ForAuctionPublication</u>	<u>Flag to indicate if the product component can be published in the public auction reports, for example yes or no.</u>	<u>Yes</u>	<u>String (3)</u>	<u>No</u>	<u>Yes</u>
<u>EffectiveDate</u>	<u>The effective date of the zone, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	<u>The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-02-01T06:20:34</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T12:23:45</u>

7.7.2.2 Segments

<u>Object Name</u>	Segments
--------------------	----------

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>FacilityId</u>	<u>The unique AEMO defined parent Facility identifier.</u>	<u>Yes</u>	<u>int</u>	<u>No</u>	<u>530001</u>
<u>FacilityName</u>	<u>The descriptive name of the parent Facility.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>VIC Pipeline</u>
<u>SegmentId</u>	<u>The unique identifier of the zone. This is referred to as a Limit Id in the Auction Quantities data submission transaction.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>123</u>
<u>SegmentName</u>	<u>The descriptive name of the zone.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Zone 1</u>



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>SegmentType</u>	<u>The type of zone, for example pipeline receipt, pipeline delivery, compression receipt or compression delivery.</u>	<u>Yes</u>	<u>String (20)</u>	<u>No</u>	<u>Pipeline Receipt</u>
<u>FromId</u>	<u>The unique identifier of the zone for forward haul pipeline segments and compression services or the service point for backhaul pipeline segments.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>20001</u>
<u>FromName</u>	<u>The descriptive name of the zone or service point.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Zone 1</u>
<u>ToId</u>	<u>The unique identifier of the zone for forward haul pipeline segments and compression services or the service point for backhaul pipeline segments.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>30001</u>
<u>ToName</u>	<u>The descriptive name of the zone or service point.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Zone 2</u>
<u>ForAuctionPublication</u>	<u>Flag to indicate if the product component can be published in the public auction reports, for example yes or no.</u>	<u>Yes</u>	<u>String (3)</u>	<u>No</u>	<u>Yes</u>
<u>EffectiveDate</u>	<u>The effective date of the segment, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	<u>The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-02-01T06:20:34</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T12:23:45</u>

7.7.2.3 Service Points

<u>Object Name</u>	<u>ServicePoints</u>
--------------------	----------------------



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>FacilityId</u>	<u>The unique identifier of the parent facility.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>100001</u>
<u>FacilityName</u>	<u>The descriptive name of the parent facility.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Moomba to Adelaide Pipeline System</u>
<u>ServicePointId</u>	<u>The unique identifier of the service point. This is referred to as a Limit Id in the <u>Auction Quantities</u> data submission transaction.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>500001</u>
<u>ServicePointName</u>	<u>The descriptive name of the service point.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>SP 1</u>
<u>ServicePointType</u>	<u>The type of service point, for example forward haul receipt point, forward haul delivery point, backhaul receipt point, backhaul delivery point, compression receipt point or compression delivery point.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>FORWARD H AUL RECEIPT POINT</u>
<u>ServicePointDescription</u>	<u>The description of the service point.</u>	<u>Yes</u>	<u>String (255)</u>	<u>No</u>	
<u>NotionalPoint</u>	<u>Flag to indicate if the service point is a notional point, for example Yes or No.</u>	<u>Yes</u>	<u>String (3)</u>	<u>No</u>	<u>Yes</u>
<u>ZoneId</u>	<u>The unique identifier of the zone in which the service point is located.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>20001</u>
<u>ZoneName</u>	<u>The descriptive name of the zone.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Zone 1</u>
<u>GBBConnectionPointId</u>	<u>The corresponding GBB connection point identifier.</u>	<u>No</u>	<u>int</u>	<u>No</u>	<u>150001</u>
<u>GBBConnectionPointName</u>	<u>The descriptive name of the corresponding GBB connection point.</u>	<u>No</u>	<u>String (100)</u>	<u>No</u>	<u>Moomba Gas Plant</u>
<u>ForAuctionPublication</u>	<u>Flag to indicate if the product component can be published in the public auction reports, for example yes or no.</u>	<u>Yes</u>	<u>String (3)</u>	<u>No</u>	<u>Yes</u>



Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
<u>EffectiveDate</u>	The effective date of the service point, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	<u>2018-02-01T06:20:34</u>
<u>LastChanged</u>	Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	<u>2018-05-01T12:23:45</u>

7.7.2.4 Notional Points

<u>Object Name</u>	<u>NotionalPoints</u>
--------------------	-----------------------

Data field name	Description	Mandatory	Data type	Primary Key	Example / Allowed values
<u>ServicePointId</u>	The unique identifier of the service point (<u>notional point</u>).	Yes	int	Yes	<u>500001</u>
<u>ServicePointName</u>	The descriptive name of the service point (<u>notional point</u>).	Yes	String (100)	No	<u>SP 1</u>
<u>PhysicalPointName</u>	The descriptive name of the physical point associated with the notional point.	Yes	String (100)	No	<u>SP 2</u>
<u>GBBConnectionPointId</u>	The corresponding GBB connection point identifier.	No	int	No	<u>150001</u>
<u>EffectiveDate</u>	The effective date of the notional point, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).	Yes	datetime	No	<u>2018-02-01T06:20:34</u>



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T12:23:45</u>

7.7.2.5 Park Services

<u>Object Name</u>	<u>ParkServices</u>
--------------------	---------------------

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>ParkProductName</u>	<u>The descriptive name of the park product.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>Park Service 1</u>
<u>ParkServicePointId</u>	<u>The unique identifier of the service point at which transportation capacity is required to use this park service.</u>	<u>Yes</u>	<u>int</u>	<u>No</u>	<u>500001</u>
<u>ParkServicePointName</u>	<u>The descriptive name of the park service point.</u>	<u>Yes</u>	<u>String (100)</u>	<u>No</u>	<u>SP 1</u>
<u>EffectiveDate</u>	<u>The effective date of the notional point, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-03-01T00:00:00</u>
<u>VersionDatetime</u>	<u>The version timestamp of the record, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-02-01T06:20:34</u>
<u>LastChanged</u>	<u>Date and time record was last modified, in ISO 8601 datetime format (yyyy-mm-ddThh:mm:ss).</u>	<u>Yes</u>	<u>datetime</u>	<u>No</u>	<u>2018-05-01T12:23:45</u>

7.7.3 Filters

This report can be filtered by:

- Component type (Zone, Segment, Service Point, Notional Point, Park Service)



7.7.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 16 JSON message format

```
{
  "data":
  {
    "Zones":
    [
      {
        "ZoneId": 20001,
        "ZoneName": "Zone 1",
        "ZoneType": "Pipeline Receipt",
        "ZoneDescription": "Some sort of description",
        "ForAuctionPublication": "Yes",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      },
      {
        "ZoneId": 20002,
        "ZoneName": "Zone 2",
        "ZoneType": "Pipeline Delivery",
        "ZoneDescription": "Some sort of description",
        "ForAuctionPublication": "Yes",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      }
    ],
    "Segments": [
      {
        "FacilityId": 100001,
        "FacilityName": "Moomba to Adelaide Pipeline System",
        "SegmentId": 30001,
        "SegmentName": "Segment 1",
        "SegmentType": "Forward Haul",
        "FromId": 20001,
        "FromName": "Zone 1",
        "ToId": 30001,
        "ToName": "Zone 2",
        "ForAuctionPublication": "Yes",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      },
      {
        "FacilityId": 100001,
```



```
"FacilityName": "Moomba to Adelaide Pipeline System",  
"SegmentId": 30001,  
"SegmentName": "Segment 1",  
"SegmentType": "Forward Haul",  
"FromId": 20002,  
"FromName": "Zone 22",  
"ToId": 30002,  
"ToName": "Zone 33",  
"ForAuctionPublication": "Yes",  
"EffectiveDate": "2018-03-01T00:00:00",  
"VersionDatetime": "2018-02-01T12:23:45",  
"LastChanged": "2018-05-01T12:23:45"  
},  
],  
"ServicePoints": [  
  {  
    "FacilityId": 100001,  
    "FacilityName": "Moomba to Adelaide Pipeline System",  
    "ServicePointId": 50001,  
    "ServicePointName": "SP 1",  
    "ServicePointType": "Forward Haul Receipt Point",  
    "ServicePointDescription": "Some description",  
    "NotionalPoint": "Yes",  
    "ZoneId": 20002,  
    "ZoneName": "Zone 2",  
    "GBBConnectionPointId": 150001,  
    "GBBConnectionPointName": "Moomba Gas Plant",  
    "ForAuctionPublication": "Yes",  
    "EffectiveDate": "2018-03-01T00:00:00",  
    "VersionDatetime": "2018-02-01T12:23:45",  
    "LastChanged": "2018-05-01T12:23:45"  
  },  
  {  
    "FacilityId": 100001,  
    "FacilityName": "Moomba to Adelaide Pipeline System",  
    "ServicePointId": 50001,  
    "ServicePointName": "SP 1",  
    "ServicePointType": "Forward Haul Receipt Point",  
    "ServicePointDescription": "Some description",  
    "NotionalPoint": "Yes",  
    "ZoneId": 20002,  
    "ZoneName": "Zone 2",  
    "GBBConnectionPointId": 150001,  
    "GBBConnectionPointName": "Moomba Gas Plant",  
    "ForAuctionPublication": "Yes",  
    "EffectiveDate": "2018-03-01T00:00:00",  
    "VersionDatetime": "2018-02-01T12:23:45",  
    "LastChanged": "2018-05-01T12:23:45"  
  }  
],
```



```

    "NotionalPoints": [
      {
        "ServicePointId": 500001,
        "ServicePointName": "SP 1",
        "PhysicalPointName": "SP 2",
        "GBBConnectionPointId": "150001",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      },
      {
        "ServicePointId": 500001,
        "ServicePointName": "SP 1",
        "PhysicalPointName": "SP 3",
        "GBBConnectionPointId": "150002",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      }
    ],
    "ParkServices": [
      {
        "ParkProductName": "Park Service 1",
        "ParkServicePointId": 500001,
        "ParkServicePointName": "SP 1",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      },
      {
        "ParkProductName": "Park Service 23",
        "ParkServicePointId": 500022,
        "ParkServicePointName": "SP 22",
        "EffectiveDate": "2018-03-01T00:00:00",
        "VersionDatetime": "2018-02-01T12:23:45",
        "LastChanged": "2018-05-01T12:23:45"
      }
    ]
  },
  "errors": null
}

```

7.8 Auction Bid Profile

7.8.1 Description

Transaction name	AUCTION BID PROFILE
------------------	---------------------



<u>Purpose</u>	<u>Allows auction participants to retrieve a specific bid profile for a given gas date.</u>
<u>Visibility</u>	<u>Private</u>
<u>Recipients</u>	<u>Auction Participants</u>
<u>Generated at</u>	<u>N/A</u>
<u>Updated at</u>	<u>N/A</u>
<u>URL</u>	<u>TBC</u>
<u>Method</u>	<u>GET</u>
<u>Notes</u>	

7.8.2 Data fields

7.8.2.1 Top level fields/object

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>GasDate</u>	<u>The first gas date of the bid profile, in ISO 8601 datetime format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-03-01</u>
<u>SubmittedAt</u>	<u>The datetime stamp of the bid profile submission, in ISO 8601 datetime format (YYYY-MM-DDThh:mm:ss). Timestamps are ignored.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-02-23T12:34:45</u>
<u>Bids</u>	<u>One or more bids may be contained within a bid profile. A bid is comprised of the following:</u> <ul style="list-style-type: none"> • <u>Bid Id</u> • <u>Products (one or more)</u> • <u>Steps (up to ten)</u> 		<u>JSON Object</u>		



7.8.2.2 Bids

<u>Object Name</u>	<u>Bids</u>				
--------------------	-------------	--	--	--	--

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>BidId</u>	<u>The unique AEMO defined bid identifier.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>1</u>
<u>Products</u>	<u>One or more products may be contained within a bid.</u>		<u>JSON Object</u>		
<u>Steps</u>	<u>Up to ten steps may be contained within a bid.</u>		<u>JSON Object</u>		

7.8.2.3 Products

<u>Object Name</u>	<u>Products</u>				
--------------------	-----------------	--	--	--	--

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>ReceiptPointId</u>	<u>The unique AEMO defined Receipt Point identifier. This is the point where gas is injected into the pipeline.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>123</u>
<u>ReceiptPointDWGMReference</u>	<u>The DWGM reference used to validate that an accreditation exists on the DWGM integrated Receipt Point. This is comprised of the DWGM MP Company ID and DWGM MIRN.</u>	<u>No</u>	<u>String (100)</u>	<u>No</u>	<u>123 - 200001PC</u>
<u>DeliveryPointId</u>	<u>The unique AEMO defined Delivery Point identifier. This is the point where gas is withdrawn from the pipeline.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>30002</u>
<u>DeliveryPointDWGMReference</u>	<u>The DWGM reference used to validate that an accreditation exists on the DWGM integrated Delivery Point. This is comprised of the DWGM MP Company ID and DWGM MIRN.</u>	<u>No</u>	<u>String (100)</u>	<u>No</u>	<u>123 - 200002PC</u>



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>ServiceReference</u>	<u>The service reference issued by the facility operator for the Facility that the Receipt and Delivery Points are related to.</u>	<u>Yes</u>	<u>String (255)</u>	<u>No</u>	<u>SR000001</u>

7.8.2.4 Steps

<u>Object Name</u>	<u>Steps</u>

<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>CumulativeStepQuantity</u>	<u>The cumulative bid step quantity.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>123</u>

StepPrice The bid price. Yes Number Yes 4.2032

7.8.3 Query Parameters

The query parameters for this transaction are:

- From Gas Date (Mandatory)
- To Gas Date (Mandatory)
- SubmittedAt (Optional) - If not supplied, then the latest successful bid submission for each gas date in a specified range is returned.



7.8.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 17 JSON message format

```
{
  "data":
  [
    {
      "GasDate": "2018-05-01T00:00:00",
      "SubmittedAt": "2018-04-23T12:23:34",
      "Bids":
      [
        {
          "BidId": 1,
          "Products":
          [
            {
              "ReceiptPointId": 3001,
              "ReceiptPointDWGMReference": "123 - 200001PC",
              "DeliveryPointId": 3002,
              "DeliveryPointDWGMReference": null,
              "ServiceReference": "SR00001"
            },
            {
              "ReceiptPointId": 3003,
              "ReceiptPointNReference": "123 - 500001PC",
              "DeliveryPointId": 3004,
              "DeliveryPointDWGMReference": null,
              "ServiceReference": "SR00022"
            }
          ]
        },
        {
          "StepPrice": "5.33",
          "CumulativeStepQuantity": 100
        },
        {
          "StepPrice": "4.33",
          "CumulativeStepQuantity": 150
        },
        {
          "StepPrice": "3.33",
          "CumulativeStepQuantity": 200
        },
        {
          "StepPrice": "2.33",
          "CumulativeStepQuantity": 250
        }
      ]
    }
  ]
}
```



```

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

7.9 Auction Bid History

7.9.1 Description

<u>Transaction name</u>	<u>AUCTION_BID_HISTORY</u>
<u>Purpose</u>	<u>Allows auction participants to retrieve metadata for all successful bid submissions for a given gas date range.</u>
<u>Visibility</u>	<u>Private</u>
<u>Recipients</u>	<u>Auction Participants</u>
<u>Generated at</u>	<u>N/A</u>
<u>Updated at</u>	<u>N/A</u>
<u>URL</u>	<u>TBC</u>
<u>Method</u>	<u>GET</u>
<u>Notes</u>	

7.9.2 Data fields

7.9.2.1 Submissions

<u>Object Name</u>	<u>Submissions</u>
--------------------	--------------------



<u>Data field name</u>	<u>Description</u>	<u>Mandatory</u>	<u>Data type</u>	<u>Primary Key</u>	<u>Example / Allowed values</u>
<u>SubmittedAt</u>	<u>The datetime stamp of the bid profile submission, in ISO 8601 datetime format (YYYY-MM-DDThh:mm:ss). Timestamps are ignored.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-02-23T12:34:45</u>
<u>SubmittingUserId</u>	<u>The unique identifier of the user who submitted the bid profile.</u>	<u>Yes</u>	<u>int</u>	<u>Yes</u>	<u>1234</u>
<u>FromGasDate</u>	<u>The first gas date of the bid profile, in ISO 8601 datetime format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-03-01</u>
<u>ToGasDate</u>	<u>The last gas date of the bid profile, in ISO 8601 datetime format (YYYY-MM-DD or YYYY-MM-DDThh:mm:ss). Timestamps are ignored.</u>	<u>Yes</u>	<u>datetime</u>	<u>Yes</u>	<u>2018-03-10</u>

7.9.3 Query Parameters

The query parameters for this transaction are:

- From Gas Date (Mandatory)
- To Gas Date (Mandatory)



7.9.4 Report example

The JSON format example only illustrates information relating to the report data, and does not include header information.

Figure 18 JSON message format

```
{
  "data":
  [
    {
      "Submissions":
      [
        {
          "SubmittedAt": "2018-05-01T12:34:22",
          "SubmittingUserId": 1234,
          "FromGasDate": "2018-05-10T00:00:00",
          "ToGasDate": "2018-05-13T00:00:00",
        },
        {
          "SubmittedAt": "2018-05-02T10:34:22",
          "SubmittingUserId": 1234,
          "FromGasDate": "2018-05-11T00:00:00",
          "ToGasDate": "2018-05-15T00:00:00",
        }
      ]
    }
  ],
  "errors": null
}
```



8 GLOSSARY

8.1 Abbreviations

Abbreviation	Abbreviation explanation
AEMO	Australian Energy Market Operator.
API	Application Programming Interface.
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 must be interpreted instead as binary numbers.
CTI	Capacity transfer interface
CTP	Capacity trading-transfer platform
DAA	Day-ahead auction
HTTPS	Hypertext Transfer Protocol over SSL.
JSON	JavaScript Object Notation.
REST	Representational State Transfer.
URL	Uniform Resource Locator.
URM	User Rights Management.

8.2 Terms

Term	Definition
Connection Point	A receipt point or delivery point.
e-Hub	API Web Portal and the API Gateway for both electricity and gas.
Rules	The National Gas Rules.



Term	Definition
Facility operator	An operator of a pipeline or compression facility.
TJ	1 Terajoule, 1,000 Gigajoules, 1,000,000 Joules. A Joule is a unit of energy.



9 NEEDING HELP

9.1 Requesting AEMO assistance

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

9.2 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



APPENDIX A. VALIDATION ERROR CODES

The following table shows the validation error codes for all transaction types.

Error code	Error type	Error message
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
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
TBC	Mandatory field	{2} is a mandatory field.
TBC	Mandatory field	ConfirmedCapacityQuantity field is mandatory when TransactionStatus = 'PARTIAL'.
TBC	Mandatory field	Reason field is mandatory when TransactionStatus = 'PARTIAL' or 'REJECTED'.
TBC	Mandatory field	Reason field is mandatory when RevisedCapacityQuantity is different to the AuctionQuantityWon reported in the Auction Results report.
TBC	Date	The StartDate {0} provided is not a valid date.
TBC	Date	The AuctionDate {0} provided is not a valid date.
TBC	Date	AuctionDate must be equal to current gas day
TBC	Date	StartDate must be equal to or less than EndDate.



Error code	Error type	Error message
TBC	Date	The EndDate {0} provided is not a valid date.
TBC	Date	EndDate must be equal to or greater than StartDate.
TBC	Date	EndDate must be greater than current gas day.
TBC	Date	The EffectiveDateTime {0} provided is not a valid date.
TBC	Date	The GasDate {0} provided is not a valid date.
TBC	Date	The FromGasDate {0} provided is not a valid date.
TBC	Date	FromGasDate must be equal to or greater than current gas day + 1.
TBC	Date	FromGasDate must be equal to or less than today + 14.
TBC	Date	The ToGasDate {0} provided is not a valid date.
TBC	Date	ToGasDate must be equal to or greater than FromGasDate.
TBC	Date	FromGasDate must be equal to or less than today + 14.
40	Identifier	Facility Id {0} does not exist in the database.
41	Identifier	Participant is not the registered operator of Facility {0}.
TBC	Identifier	Participant is not the registered operator of Facility {0} linked to CapacityTransferId {0}.
TBC	Identifier	Participant is not the registered operator of Facility {0} linked to AuctionTransactionId {0}.
TBC	Identifier	Participant {0} does not exist in the database.



Error code	Error type	Error message
TBC	Identifier	STTMContractReference {0} does not exist in the database.
TBC	Identifier	CapacityTransferId {0} does not exist in the database.
TBC	Identifier	CapacityTransferId {0} is missing from the submission.
TBC	Identifier	LimitId {0} does not exist in the database.
TBC	Identifier	LimitId {0} is not registered to the participant.
TBC	Identifier	LimitId {0} is missing from the submission.
TBC	Identifier	AuctionTransactionId {0} does not exist in the database.
TBC	Identifier	AuctionTransactionId {0} is missing from the submission.
TBC	Identifier	ServicePointId {0} does not exist in the database.
TBC	Identifier	ServicePointId {0} is not registered to the participant.
TBC	<u>Identifier</u>	<u>ReceiptPointId {0} does not exist in the database.</u>
TBC	<u>Identifier</u>	<u>DeliveryPointId {0} does not exist in the database.</u>
TBC	Type	ContractType value {0} is not valid.
TBC	Type	TransactionStatus value {0} is not valid.
TBC	Type	Reason value {0} is not valid.
TBC	<u>Type</u>	<u>LimitType value {0} is not valid.</u>
TBC	Type	OperationalOverride value {0} is not valid.



Error code	Error type	Error message
TBC	Type	Reason value {0} is not valid.
TBC	Type	AuctionService value {0} is not valid.
TBC	Type	Curtailed value {0} is not valid.
TBC	Type	Material value {0} is not valid.
TBC	Quantity	LimitQuantity {0} must be greater than or equal to 0.
TBC	Quantity	RevisedCapacityQuantity {0} must be greater than or equal to 0.
TBC	Quantity	FinalNominationQuantity {0} must be greater than or equal to 0.
TBC	Quantity	Curtailed RejectedQuantity {0} must be greater than or equal to 0.
TBC	<u>Quantity</u>	<u>At least one Product must be specified per bid.</u>

Where:

Label	Description
{0}	The invalid data provided for a field in the data submission.
{1}	The data type for a field in the data submission.
{2}	The field name in the data submission.