GUIDE TO NATURAL GAS SERVICES BULLETIN BOARD REPORTS

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AEMO
AUSTRALIAN ENERGY MARKET OPERATOR

IMPORTANT NOTICE

Purpose

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

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CONTENTS

Abbreviations and symbols 1
Special Terms 1

1 INTRODUCTION 2
1.1 Purpose 2
1.2 Audience 2
1.3 How to use this guide 2
1.4 What is in this guide 2

2 OVERVIEW 3
2.1 Accessing BB reports 3
2.2 Identifiers (Id's) 3
2.3 Report file format 3
2.4 Report file naming convention 4
2.5 Report definitions 4
2.6 Data Dictionary 5

3 BB REPORT OVERVIEW 8

4 BB REPORT DETAILS 10
4.1 INT901 – BB Facilities List 10
4.2 INT902 – Zones List 11
4.3 INT903 - Detailed Facility Information 12
4.4 INT910 - Gate Station Standing Capacities 13
4.5 INT911 – Standing Capacities 14
4.6 INT912 – Standing Peak Day Demand Forecasts 16
4.7 INT913 - Secondary Pipeline Capacity Bid and Offer Summary 17
4.8 INT914 - Secondary Pipeline Capacity Trade Summary 18
4.9 INT921 – Linepack Capacity Adequacy 19
4.10 INT922 – Capacity Outlook 20
4.11 INT923 – Forecast Pipeline Flows 22
4.12 INT924 - Actual Flows 7 Day 24
4.13 INT925 - Actual Flows Prev Month 25
4.14 INT927 - Forecast Storage Flows 26
4.15 INT928 - Medium Term Capacity Outlook 28
4.16 INT929 - Uncontracted Capacity Outlook 29
4.17 INT930 - Actual Gas Held in Storage 30
4.18 INT931 – Registered BB Contacts 31
4.19 INT933 – Registered BB Participants 32
4.20 INT944 – Transaction Log 33
4.21 Capacity Listing Page 34

5 REFERENCES 35
5.1 Relevant Documents and Guides 35

Abbreviations and symbols

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

Abbreviation	Abbreviation Explanation
AEMO	Australian Energy Market Operator
AEST	Australian Eastern Standard Time
BBO	The Natural Gas Services Bulletin Board Operator
CSV	Comma-Separated Values, a comma delimited text
N/A	Not Applicable
BB	Natural Gas Services Bulletin Board
TJ	1000 Giga Joules, 10^{12} Joules. A Joule is a unit of energy.

Special Terms

Term	Definition
Default flow	The direction that gas normally flows through a pipeline (as per the Schedule of Default Pipeline Flow Direction, found in the references section). Those flows in the opposite direction, will be shown as either negative values or labelled as Reverse flows.
Demand Zone	A region where the natural gas load is delivered by one or more BB pipelines.
Gas Day	A period of 24 consecutive hours that commences in accordance with the respective agreements or rules that apply to the facilities and pipelines covered by the BB. The Gas Day Start Hour that applies to each facility or pipeline is published in the INT901 – Plant List report.
Procedures	The Bulletin Board procedures made under Part 18 of the National Gas Rules.
Production Zone	A region in which natural gas is produced from one or more facilities and is injected into one or more BB pipelines that transport the gas to other Production or Demand Zones.
Rules	The National Gas Rules.
TJ	1 Terajoule, 1000 Gigajoules, 1000000 Joules. A Joule is a unit of energy.

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1 INTRODUCTION

1.1 Purpose

This guide details the specifications for the Natural Gas Services Bulletin Board (BB) CSV reports published by AEMO through the BB FTP File Share. For details of the reports published on the BB website refer to the 'Relevant Documents and Guides' listed in the References section.

1.2 Audience

The primary audience for this document is business users and IT developers involved in the design and implementation of systems or processes to interface with the BB from Participant organisations and the Bulletin Board Operator.

1.3 How to use this guide

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

Text in this format indicates a direct hyperlink with details of the resource listed in "References" section

1.4 What is in this guide

- Chapter 2 'Overview' provides the general report format, file naming convention, and definitions.
- Chapter 3 'BB Report Overview' provides a summary of all BB reports.
- Chapter 4 'BB Report Details' details the specification of each report.
- Chapter 5 'References' is a list of related information and documents mentioned throughout this guide.

2 OVERVIEW

2.1 Accessing BB reports

BB CSV reports are available to registered BB participants via the FTP File Share. Participants can directly access public reports from the public folder at **..\Default FTP Directory\Public**, and they can access their participant specific reports from their own private folder at **..\Default FTP Directory\<PARTICIPANTFOLDER>**.

BB CSV public reports are added to a zipped archive file at the end of each calendar month. Archived zip files are accessible from the following folder: **..\Default FTP Directory\Public\Archive\Zip**. The naming convention of the monthly zip files is AEMO_GASBB_YYYYMM.zip (for example AEMO_GASBB_201407.zip).

BB report data is also available via the AEMO Data Interchange. For further details on setting up and using Data Interchange please refer to the Data Interchange page on the AEMO website.

2.2 Identifiers (Id's)

Plant and Zone identifiers used within the Reports on the BB subscribe to the following format.

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	Unique identifying Number	1 to 9999 including leading zeros

For example, Id 520345 relates to an element (Plant or Zone) within NSW / ACT with a unique identifier of 0345 which is related to the gas industry.

2.3 Report file format

BB reports are in CSV file format.

2.4 Report file naming convention

The general format of the report filename is:

[INTERFACEID]_[INTERFACEVERSION]_[INTERFACENAME]_[REGIONSPECIFIER]~ [DATE].csv

intAAA_v[n]_N_N_N{_r_[r]}~yyyymmddhhmmss.csv

For example:

int923_v1_forecast_pipeline_flow_r_1~20141110100651.csv

int911_v1_standing_1~20141109180530.csv

Format details t of each component in the filename is as follows.

Format details

Name part	Description	Format
[INTERFACEID]	Unique report / interface identifier.	intAAA
[INTERFACEVERSION]	A number representing the version of the report.	v[n]
[INTERFACENAME]	Name of report. Words separated by underscores.	N_N_N
[REGIONSPECIFIER]	A number representing the Region to which the interface data applies. If the interface is not Region specific, this component is omitted.	r_[r]
[DATE]	Report generation date. Date specified in reverse format to aid chronologic sorting.	yyyymmddhhmmss
csv	File extension.	

2.5 Report definitions

Each report consists of the following sections:

Report details

Purpose	Brief description of the report's purpose.
Region specific	Specifies whether the report is specific to a region or not.
Report period	The period of time the data covers.
Trigger	Describes the trigger for the report. Generally the reports are triggered by time or a specific event.
Update interval	Specifies how often the report gets updated.
Access	Specifies whether a report is produced for public view or private view by participant only.
Output filename	The file name of the published report.

Report contents

Table Column Name	Explanation
Column Name	Name of the field displayed on the header row.
Data Type	Actual data type of the source data. May be useful in designing data storage schema.
Nullable	Describes whether the field is mandatory (No = mandatory), and (Yes = optional).
Format	Provides the format that the field data should follow if applicable.
Description	Gives further explanation for the data element.

Sample file

This section provides an example of the CSV report that contains dummy data.

2.6 Data Dictionary

For the purpose of this document, the description of the data contained within the reports is as follows:

Field type	Value	Description
CapacityType	HCAP	Holding capacity in storage.
	MDQ	Daily maximum firm capacity (name plate) under the expected operating conditions adjusted for any plant that is 'mothballed', decommissioned or down-rated and/or cannot be recalled within 1 week, planned maintenance excepted.
	RMDQ	Reverse direction daily maximum capacity (name plate) under normal operating conditions.
	WMDQ	Withdrawal into UGS or liquefaction of LNG Daily maximum daily capacity (name plate) under normal operating conditions.
ConnectionType	Receipt	Describes a Connection Point that flows gas into its Parent BB Facility.
	Delivery	Describes a Connection Point that flows gas out of its Parent BB Facility.
	Gate Station	Describes a Delivery Connection Point that flows gas from a BB Pipeline into a distribution network.
DemandType	PSUMM	1 in 2 summer (November to March) peak day demand (by zone / jurisdiction).
	PWINT	1 in 2 winter (May to September) peak day demand (by zone / jurisdiction).
Flag	GREEN	Adequate linepack / pipeline capacity available to meet demand.
	AMBER	Voluntary / contractual load shedding or LNG scheduled at a rate >0 and <= 100tonnes/h.
	RED	Load shedding required or LNG scheduled at a rate > 100 tonnes/h.
FlowDirection	RECEIPT	For a pipeline, this refers to the flow of gas from a production or storage facility into a pipeline. For a storage facility, this refers to the flow of gas from a pipeline into the storage facility.

Field type	Value	Description
FlowDirection (continued)	DELIVERY	For a pipeline, this refers to the flow of gas out of a pipeline and into another location such as a distribution network, storage facility or another pipeline. For a production facility, this refers to the flow of gas out of a production facility and into another location such as a pipeline. For a storage facility, this refers to the flow of gas out of a storage facility and into a pipeline.
NominationType	FIRMN	Firm nomination. Not used in Victoria.
	FIRMR	Firm renomination, an update within the gas day. Not used in Victoria.
	FCNOM	Forecast nomination for the (contracted) outlook period. Not used in Victoria.
	D+0	Current gas day forecast. Victorian market only.
	D+1	Day ahead forecast. Victorian market only.
	D+2	2 day ahead forecast. Victorian market only.
	D+3	3 day ahead forecast. Victorian market only.
	D+4	4 day ahead forecast. Victorian market only.
	D+5	5 day ahead forecast. Victorian market only.
	D+6	6 day ahead forecast. Victorian market only.
OutlookType	PRODC	Production capacity for a production or storage facility.
	TRANC	Transmission capacity of a pipeline.
	REVC	Reverse direction transmission capacity. Typically applies to interconnectors or pipelines that do or are likely to experience net reverse flows.
	WDLC	Capacity for injection of gas into the storage facility from the pipeline.
	INJC	Capacity for withdrawal of gas from the storage facility into the pipeline.
PlantType	PIPE	Pipeline - a pipeline that transports gas between demand and / or production zones.
	PROD	Production facility – a facility at which natural or processable gas produced and / or processed for injection into BB pipelines (sales quality natural gas).
	STOR	Storage facility – a facility where gas is withdrawn from a pipeline, processed held in storage for subsequent processing and re-injection - includes LNG plant and underground gas storage (UGS).
Quality	OK	Data quality satisfactory.
	OOR	Data Out of Range. System generated.
	S1	Data substituted with previous day's values.
	S2	Data substituted with values from 2 days prior.
TransmissionDirection	FORWARD	Represents gas flow in the default direction. The default direction can be found in Schedule of Default Pipeline Flow.
	REVERSE	Represents gas flow in the opposite direction to the default direction. The default direction can be found in Schedule of Default Pipeline Flow.
ZoneType	JURI	Jurisdiction – an area typically aligned to state or territory boundaries.

Field type	Value	Description
ZoneType (continued)	DZONE	A demand zone supplied by one or more pipelines. Those with two or more pipelines may be referred to as demand hubs.
	PZONE	A production zone supplying one or more pipelines. Those supplying two or more pipelines may be referred to as production hubs.

3 BB REPORT OVERVIEW

Report Id	Report Name	Output File Name	Region Specific	Report Period	Trigger	Update Interval
INT901	BB Facilities List	int901_v[n]_bb_facility_1~yyyymmddhhmmss.csv	N	Current records	Daily at 17:00	Daily
INT902	Zones List	int902_v[n]_zone_1~yyyymmddhhmmss.csv	N	Current records	Daily at 17:00	Daily
INT903	Detailed Facility Information	int903_v[n]_detailed_facility_information_1~yyyymmddhhmmss.csv	N	Current records	Daily at 17:00	Daily
INT910	Gate Station Standing Capacities	int910_v[n]_gate_station_standing_capacities_1~yyyymmddhhmmss.csv	N	Current and future records	Daily at 17:00	Daily
INT911	Standing Capacities	int911_v[n]_standing_1~yyyymmddhhmmss.csv	N	Current and future records	File processed	N/A
INT912	Standing Peak Day Demand Forecasts	int912_v[n]_standing_peak_day_demand_1~yyyymmddhhmmss.csv	N	Current records	File processed	N/A
INT913	Secondary Pipeline Capacity Bid and Offer Summary	int913_v[n]_secondary_bid_offer_summary_r_[r]~yyyymmddhhmmss.csv	Y	All records with a ToDate greater than or equal to current day - 8	Time trigger once a week, at 1900 hrs AEST every Sunday AND on receipt and processing of new data submission	Weekly
INT914	Secondary Pipeline Capacity Trade Summary	int914_v[n]_secondary_trade_summary_r_[r]~yyyymmddhhmmss.csv	Y	Last 7 days prior to current day	Time trigger once a week, at 1900 hrs AEST every Sunday AND on receipt and processing of new data submission	Weekly
INT921	Linepack Capacity Adequacy	int921_v[n]_linepack_adequacy_r_[r]~yyyymmddhhmmss.csv	Y	D+0, D+1 and D+2	Data change	Hourly
INT922	Capacity Outlook	int922_v[n]_capacity_outlook_r_[r]~yyyymmddhhmmss.csv	Y	D+0, D+1, D+2,D+3, D+4,D+5, D+6	Data change	Hourly

Report Id	Report Name	Output File Name	Region Specific	Report Period	Trigger	Update Interval
INT923	Forecast Pipeline Flows	int923_v[n]_ forecast_pipeline_flow_r_ [r]~yyyymmddhhmmss.csv	Y	Outlook period	Data change	Hourly
INT924	Actual Flows 7 Day	int924_v[n]_actual_flow_ 7_day_r_[r]~yyyymmddh hmmss.csv	Y	Rolling 7 days	Time trigger every 4 hours starting 02:30	4 hours
INT925	Actual Flows Prev Month	int925_v[n]_actual_flow_ prev_month_r_[r]~yyyym mddhhmmss.csv	Y	Previous month	Time trigger once a month, on the 7th day of the month at 17:00	Monthly
INT927	Forecast Storage Flows	int927_v[n]_forecast_stor age_flows_r_[r]~yyyymm ddhhmmss.csv	Y	Current gas day and next 7 gas days	On receipt and processing of new data	N/A
INT928	Medium Term Capacity Outlook	int928_v[n]_medium_ter m_capacity_outlook_r_[r] ~yyyymmddhhmmss.csv	Y	Current and future records	File processed	N/A
INT929	Uncontracted Capacity Outlook	int929_v[n]_uncontracted _capacity_outlook_r_[r]~ yyyymmddhhmmss.csv	Y	The next 12 months	At 1900 hrs AEST on the last gas day of each month AND on receipt and processing of new data	Monthly
INT930	Actual Gas Held in Storage	int930_v[n]_actual_held_i n_storage_r_[r]~yyyymm ddhhmmss.csv	Y	Rolling 7 days	Time trigger every 4 hours starting at 0:00	4 hours
INT931	Registered BB Contacts	int931_v[n]_registered_b b_1~yyyymmddhhmmss. csv	N	Current records	Daily at 17:00	Daily
INT933	Registered BB Participants	int933_v[n]_registered_b b_1~yyyymmddhhmmss. csv	N	Current records	Daily at 17:00	Daily
INT944[1]	Transaction Log	int944_v[n]_transaction_l og_r_[r]~ yyyymmddhhmmss.csv	N	Current records	File processed	N/A

[1] Indicates access is limited to the individual registered participant user(s)

4 BB REPORT DETAILS

4.1 INT901 – BB Facilities List

Report details

Purpose	This report displays the list of all plant (BB pipelines, BB production, and BB storage facilities) within the Bulletin Board system including plant that is the subject of an exemption declaration. This report also identifies the organisation (company) responsible for the operation of the respective plant.
Region specific	No
Report period	Current records
Trigger	Daily at 17.00
Update interval	Daily
Access	Public
Output filename	int901_v[n]_bb_facility_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantID	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.
PlantName	varchar(40)	No		Name of the plant.
PlantType	char(5)	No		Describes type of plant. Valid entries are: PIPE, PROD or STOR.
Zone	varchar(40)	No		Name of the corresponding Zone.
OperatorName	varchar(40)	No		Name of the organisation operating the plant.
LowRange	int	No		Percentage value used for (low) validation of capacity outlook.
HiRange	int	No		Percentage value used for (high) validation of capacity outlook.
Exempt	char(1)	No		Specifies whether plant has been excluded for BB purposes. Valid entries are: Y or N.
GasDayStartHour	int	No		Specifies the gas day start hour for this specific plant. Valid entries are 0 to 23.
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique Zone identifier.
OperatorId	int	No		Unique operator identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.

Column Name	Data Type	Nullable	Format	Description
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantID,PlantName,PlantType,Zone,OperatorName,LowRange,HiRange,Exempt,GasDayStartHour,Z
oneId,OperatorId,LastUpdated,ReportDateTime
520075,Camden CSM,PROD ,Sydney (SYD),AGL Upstream Investments Pty
Limited,0,120,N,6,520008,91,23 Mar 2011 14:39:57,02 Oct 2014 14:17:21
520053,Moomba to Sydney Pipeline System,PIPE ,Sydney (SYD),APA
Group,15,120,N,6,520008,94,10 Jan 2014 15:06:43,02 Oct 2014 14:17:21
520047,Eastern Gas Pipeline,PIPE ,Sydney (SYD),Jemena Eastern Gas Pipeline (1) Pty
Ltd,20,120,N,6,520008,138,14 Aug 2009 11:56:45,02 Oct 2014 14:17:21
520053,Moomba to Sydney Pipeline System,PIPE ,Aust. Capital Territory (ACT),APA
Group,15,120,N,6,520009,94,10 Jan 2014 15:06:43,02 Oct 2014 14:17:21
```

4.2 INT902 – Zones List

Report details

Purpose	This report displays the list of all Production and Demand Zones within the Bulletin Board system.
Region specific	No
Report period	Current records
Trigger	Daily at 17.00
Update interval	Daily
Access	Public
Output filename	int902_v[n]_zone_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique Zone identifier.
ZoneName	varchar(40)	No		Name of the Zone.
ZoneType	char(5)	No		Type of entry, valid entries are DZONE, PZONE, JURI.
ZoneDescription	varchar(255)	No		Free text description of Zone, including boundaries and measurement basis.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
ZoneId,ZoneName,ZoneType,ZoneDescription,LastUpdated,ReportDateTime
520008,Sydney (SYD),DZONE,Demand supplied through the MSP CG at Wilton and the EGP CG at Horsley Park CG  and EGP CG  at Wollongong CG.,26 Jul 2011 17:38:23,17 Oct 2012 10:29:56
520009,Aust. Capital Territory (ACT),DZONE,Demand supplied through either the EGP CG at Hoskinstown or the MSP-Canberra CG at Watson,26 Jul 2011 17:38:23,17 Oct 2012 10:29:56
520010,Moomba to Sydney Pipeline System (MSP),DZONE,Demand supplied through the MSP including its  laterals  through Wilton CG and Canberra CG (Watson) but excluding any export flows to Victoria via the  Interconnect.,26 Jul 2011 17:38:23,17 Oct 2012 10:29:56
520011,Eastern Gas Pipeline (EGP),DZONE,Demand supplied through the EGP including to the ACT and Sydney zones.,26 Jul 2011 17:38:23,17 Oct 2012 10:29:56
```

4.3 INT903 - Detailed Facility Information

Overview

The Detailed Facility Information report displays the following information for BB pipelines, storage facilities and production facilities:

- For each BB production and storage facility:
  - each BB pipeline to which the facility is connected; and
  - the receipt or delivery points at which the facility is connected
- Information to be included for each BB pipeline:
  - all receipt or delivery points on that pipeline and any production facilities, storage facilities and transmission pipelines to which those receipt or delivery points connect; and
  - all gate stations on that pipeline

Report details

Region specific	No
Report period	Current records
Trigger	Daily at 1700 hrs AEST
Update interval	Daily
Access	Public
Output filename	int903_v[n]_detailed_facility_information_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
ParentBBPlantID	int	No		ID of the facility whose operator is responsible for submitting data to the BB for the connection point.
ParentBBPlantName	varchar(100)	No		Name of the plant whose operator is responsible for submitting data to the BB for the connection point.
ConnectionPointID	int	No		Unique connection point identifier.

Column Name	Data Type	Nullable	Format	Description
ConnectionPointName	varchar(100)	No		Name of the connection point.
ConnectionType	varchar(8)	No		Describes type of connection. Valid entries are: Receipt, Delivery or Gate Station.
ConnectsToPlantID	int	Yes		ID of the plant connected to the parent plant.
ConnectsToPlantName	varchar(40)	Yes		Name of the plant connected to the parent plant.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
ParentBBPlantID,ParentBBPlantName,ConnectionPointID,ConnectionPointName,ConnectionType,C
onnectsToPlantID,ConnectsToPlantName,LastUpdated,ReportDateTime
550054,Moomba to Adelaide Pipeline System,001,Adelaide Metro,Gate Station,,,10 Jan 2016
15:06:43,11 Jan 2016 14:17:21
550054,Moomba to Adelaide Pipeline System,002,Amcor,Delivery,,,10 Jan 2016 15:06:43,11 Jan
2016 14:17:21
530048,Longford to Melbourne,003,Longford,Receipt, 530039,Longford Gas Plant,10 Jan 2016
15:06:43,11 Jan 2016 14:17:21
```

4.4 INT910 - Gate Station Standing Capacities

Overview

The Gate Station Standing Capacities report displays the nameplate rating, owner and operator for each gate station connected to a BB pipeline.

Report details

Region specific	No
Report period	Current and future records
Trigger	Daily at 17:00
Update interval	Daily
Access	Public
Output filename	int910_v[n]_gate_station_standing_capacities_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
GateStationID	int	No		Unique gate station identifier.
GateStationName	varchar(100)	No		Name of the gate station.
CapacityQuantity	decimal(18,1)	Yes		Standing capacity quantity for the gate station.
FromDate	varchar(20)	Yes	dd MMM yyyy	Date capacity comes into effect.
ToDate	varchar(20)	Yes	dd MMM yyyy	Date capacity is effective to.
OwnerName	varchar(100)	No		Name of the organisation that operates the owns the gate station.
OperatorName	varchar(100)	No		Name of the organisation that operates the gate station.
PipelineID	int	No		Unique identifier for the pipeline that the gate station is connected to.
PipelineName	varchar(40)	No		Name of the pipeline that the gate station is connected to.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
GateStationID,GateStationName,CapacityQuantity,FromDate,ToDate,OwnerName,OperatorName,PipelineID,PipelineName
001,Taperoo,100,15 Jan 2016,,Epic,Epic,550054,Moomba to Adelaide Pipeline System,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
002,Gepps Cross,100,15 Jan 2016,,Aus Gas Networks, Aus Gas Networks,550054,Moomba to Adelaide Pipeline System,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
003,Elizabeth,100,15 Jan 2016,,Epic,Epic,550054,Moomba to Adelaide Pipeline System,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.5 INT911 – Standing Capacities

Overview

This region specific report displays the standing nameplate capacity of all BB facilities (as defined in the INT901 report). Nameplate rating relates to the maximum daily quantities in TJ under normal operating conditions. Facility Operators must provide this ‘nameplate’ capacity information annually or when there is a material change to the capacity of the plant that is expected to remain in force for 12 months or longer (i.e. excludes short term maintenance). With respect to production capacity, Standing Capacity should take long term field performance trends into account.

Where multiple Capacity Types apply to individual plant (eg. bidirectional pipelines or interconnects will have a corresponding MDQ and RMDQ whereas storage facilities will have corresponding MDQ, HCAP and WMDQ), then all the relevant nameplate capacity details are required to be provided.

Report details

Purpose	This region specific report displays the standing nameplate capacity of all BB facilities (as defined in the INT901 report). Nameplate rating relates to maximum daily quantities in TJ under normal operating conditions.
Region specific	No
Report period	Current and future records.
Trigger	On receipt and processing of new file.
Update interval	N/A
Access	Public
Output filename	int911_v[n]_standing_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of plant.
PlantType	char(5)	No		Describes the type of plant, which can be PIPE, PROD, STOR.
CapacityType	char(5)	No		The type of the standing capacity being detailed, which can be: HCAP, MDQ, RMDQ, WMDQ.
CapacityQuantity	decimal(18,6)	No		Standing capacity quantity for the selected plant type and capacity type.
Units	char(5)	No		Unit of measurement. Only TJ is used.
EffectiveDate	varchar(40)	No		Date capacity comes into effect.
Comments	varchar(255)	Yes		Free text description of record.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique identifier for the plant.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,PlantType,CapacityType,CapacityQuantity,Units,EffectiveDate,Comments,PlantId,LastUpdated,ReportDateTime
LNG Storage Dandenong,STOR,HCAP,659,TJ,01 Jul 2009,,530038,30 Jun 2009 14:10:01,10 Nov 2014 18:05:32
LNG Storage Dandenong,STOR,MDQ,158,TJ,01 Jul 2009,,530038,30 Jun 2009 14:10:01,10 Nov 2014 18:05:32
LNG Storage Dandenong,STOR,WMDQ ,2.8,TJ   ,01 Jul 2009,,530038,30 Jun 2009 14:10:01,10 Nov 2014 18:05:32
Dawson Valley,PROD,MDQ,16,TJ,03 Jul 2009,MDQ,540064,03 Jul 2009 15:35:01,10 Nov 2014 18:05:32
```

4.6 INT912 – Standing Peak Day Demand Forecasts

Overview

The report includes a 1 in 2 Peak Summer day and/or Winter day demand forecast (or peak day forecasts other than 1 in 2 as defined. For the purpose of this report, the summer period is considered to be from November to March (inclusive) and the winter period is considered to be from May to September (inclusive).

The BBO provides the standing demand data (i.e. peak day demand forecasts by zone) but may consult other BB Participants in this process.

Report details

Purpose	This report displays the peak day demand forecasts for each of the demand Zones. The 1 in 2 peak gas day value or peak demand as otherwise specified is shown for each demand Zone and Jurisdiction for both summer and winter.
Region specific	No
Report period	Current records
Trigger	On receipt and processing of new file
Update interval	N/A
Access	Public
Output filename	int912_v[n]_standing_peak_day_demand_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
ZoneName	varchar(40)	No		Name of the Zone.
DemandType	char(5)	No		The type of forecast demand being detailed. Valid entries are PSUMM or PWINT.
DemandQuantity	decimal(18,6)	No		Demand quantity of Zone.
Units	char(5)	No		Unit of measurement. Only TJ is used.
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique identifier of zone.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
ZoneName,DemandType,DemandQuantity,Units,ZoneId,LastUpdated,ReportDateTime
Sydney (SYD),PSUMM,249,TJ,520008,01 Sep 2014 16:15:18,01 Sep 2014 16:15:23
Sydney (SYD),PWINT,314.4,TJ,520008,04 Mar 2014 16:35:05,01 Sep 2014 16:15:23
Aust. Capital Territory (ACT),PSUMM,20,TJ,520009,01 Sep 2014 16:15:18,01 Sep 2014 16:15:23
Aust. Capital Territory (ACT),PWINT,59,TJ,520009,04 Mar 2014 16:35:05,01 Sep 2014 16:15:23
```

4.7 INT913 - Secondary Pipeline Capacity Bid and Offer Summary

Overview

- The Secondary Pipeline Bid and Offer Summary report displays secondary trade bids and offers for BB pipelines on a weekly basis. This data is used to identify shippers wishing to buy or sell spare capacity on a pipeline.
- This data is limited to BB pipelines where the pipeline operator owns, controls or operates a secondary pipeline capacity trading platform.

Report details

Region specific	Yes
Report period	All records with a ToDate greater than or equal to current day – 8.
Trigger	Time trigger once a week, at 1900 hrs AEST every Sunday; and On receipt and processing of new data submission.
Update interval	Weekly and adhoc
Access	Public
Output filename	int913_v[n]_secondary_bid_offer_summary_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PipelineID	int	No		Unique pipeline identifier.
PipelineName	varchar(40)	No		Name of the pipeline.
BuySell	char(4)	No		Indicates whether the shipper is either looking to buy or sell spare capacity.
Qty	decimal(18,2)	No		Spare capacity quantity in GJ per day.
Price	decimal(18,2)	Yes		Spare capacity price expressed in $/GJ.
FromDate	varchar(20)	No	dd MMM yyyy	Date spare capacity comes into effect.
ToDate	varchar(20)	No	dd MMM yyyy	Date spare capacity is effective to.
ReceiptPoint	varchar(256)	Yes		Name of the location where gas will be receipted into the pipeline.
DeliveryPoint	varchar(256)	Yes		Name of the location where gas will be delivered out of the pipeline.
ContactDetails	varchar(256)	Yes		Name and number of shippers contact person.
DataProviderID	int	No		Unique identifier for the company submitting the data to AEMO.
DataProviderName	varchar(40)	No		Name of company submitting the data.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

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Sample file

```
PipelineID,PipelineName,BuySell,Qty,Price,FromDate,ToDate,ReceiptPoint,DeliveryPoint,ContactDetails,DataProviderID,DataProviderName,LastUpdated,ReportDateTime
550054,Roma-Brisbane Pipeline,Buy,100,4.50,3 Mar 2016,10 Mar 2016,Receipt point 1,Delivery point 3,John Smith - 0444 111 222,94,APA Group,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
550054,Roma-Brisbane Pipeline,Sell,300,5.80,5 Apr 2014,30 Apr 2016,Receipt point 4,Delivery point 2,Peter Jones – 0433 444 777, 94,APA Group,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.8 INT914 - Secondary Pipeline Capacity Trade Summary

Overview

- The Secondary Pipeline Trade Summary report displays a summary of secondary pipeline capacity trades that have occurred in the past week.
- This data is limited to BB pipelines where the pipeline operator owns, controls or operates a secondary pipeline capacity trading platform.

Report details

Region specific	Yes
Report period	Last 7 days prior to current day.
Trigger	Time trigger once a week, at 1900 hrs AEST every Sunday; and On receipt and processing of new data submission.
Update interval	Weekly and adhoc
Access	Public
Output filename	int914_v[n]_secondary_trade_summary_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PipelineID	int	No		Unique pipeline identifier.
PipelineName	varchar(40)	No		Name of the pipeline.
GasDate	varchar(11)	No	dd MMM yyyy	Date of trade summary data.
TransmissionDirection	char(7)	No		Direction of gas transmission. Valid entries are: FORWARD or REVERSE.
NameplateCapacity	decimal(18,2)	No		Official pipeline capacity expressed in GJ.
DailyNominations	decimal(18,2)	No		Daily aggregate quantity of gas (expressed in GJ) nominated for delivery from the pipeline.
DailyUtilisation	decimal(18,2)	No		Percentage of the pipeline capacity that is utilised per day.
AvailableCapacity	decimal(18,2)	No		Operational capacity minus nominations each day. Expressed in GJ.

Column Name	Data Type	Nullable	Format	Description
CapacityOnOffer	decimal(18,2)	No		Sum of total capacity offered for sale expressed in GJ.
DailyCapacityTraded	decimal(18,2)	No		Sum of total daily sold capacity expressed in GJ.
DailyCapacity	decimal(18,2)	Yes		Operational capacity.
ContractedCapacity	decimal(18,2)	Yes		Firm-forward, contracted pipeline capacity expressed in GJ.
AverageAnnualCapacityTraded	decimal(18,2)	Yes		Sum of total annual sold capacity divided by number of days, year to date. Expressed in GJ.
DataProviderID	int	No		Unique identifier for the company submitting the data to AEMO.
DataProviderName	varchar(40)	No		Name of the company submitting the data to AEMO.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PipelineId,PipelineName,GasDate,TransmissionDirection,NameplateCapacity,DailyNominations,DailyUtilisation,AvailableCapacity,CapacityOnOffer,DailyCapacityTraded,DailyCapacity,ContractedCapacity,AverageAnnualCapacityTraded,DataProviderID,DataProviderName,LastUpdated,ReportDateTime
540060,Roma-Brisbane Pipeline,23 Jan 2016,Forward,300000.25,245000.25,88,200000.25, 200000.25, 200000.25,300000.25, 300000.25,1450000.25,94,APA Group,28 Jan 2016 15:06:43,29 Jan 2016 14:17:21
550052, Roma-Brisbane Pipeline,23 Jan 2016,Reverse,100000.25,66000.25,56.25,50000.25, 50000.25, 50000.25, 100000.25, 100000.25,450000.25,94,APA Group,28 Jan 2016 15:06:43,29 Jan 2016 14:17:21
```

4.9 INT921 – Linepack Capacity Adequacy

Report details

Purpose	This report displays the linepack adequacy (flag) for each of the (non-exempt) BB pipelines for the next three gas days.
Region specific	Yes
Report period	Current gas day and next two gas days (eg. gas day, day+1 and day+2)
Trigger	Hourly, when changes detected
Update interval	Hourly
Access	Public
Output filename	int921_v[n]_linepack_adequacy_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of the plant.
GasDate	varchar(20)	No	dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
Flag	char(5)	No		Expected adequacy for the gas day. Valid entries are GREEN, AMBER or RED.
Description	varchar(255)	Yes		Free text description of record.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,GasDate,Flag,Description,PlantId,LastUpdated,ReportDateTime
Carpentaria Pipeline,11 Nov 2014,GREEN,,540059,10 Jul 2014 12:00:07,11 Nov 2014 08:06:52
Eastern Gas Pipeline,11 Nov 2014,GREEN,,520047,10 Nov 2014 17:05:24,11 Nov 2014 08:06:52
Longford to Melbourne,11 Nov 2014,GREEN, ,530048,24 Jun 2013 23:00:02,11 Nov 2014 08:06:52
Moomba to Adelaide Pipeline System,11 Nov 2014,GREEN,,550054,25 May 2013 02:50:03,11 Nov
2014 08:06:52
```

4.10 INT922 – Capacity Outlook

Report details

Purpose	This report displays the capacity outlook for each of BB pipeline and each BB facility for the next 7 days. The outlook capacity type will be dependant upon the type of plant eg. production and storage facilities will report production capacity, pipelines will report transmission capacity whilst interconnects and bi-directional pipelines will report transmission capacity and reverse direction transmission capacity.
Region specific	Yes
Report period	Current gas day and next 6 gas days (eg. D0, D+1, D+2, D+3, D+4, D+5, D+6).
Trigger	Hourly, when changes detected.
Update interval	Hourly
Access	Public
Output filename	int922_v[n]_capacity_outlook_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of the plant.
GasDate	varchar(20)	No	dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
OutlookType	char(5)	No		Type of capacity being reported. Valid entries are PRODC, TRANC or REVC.
OutlookQuantity	decimal(18,6)	No		Outlook capacity quantity expressed in TJ's.
Units	char(5)	No		Unit of measurement. Only TJ is used.
Description	varchar(255)	Yes		Free text description of record.
Quality	char(5)	No		Expression of data quality. Valid entries are OK, OOR, S1 or S2.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,GasDate,OutlookType,OutlookQuantity,Units,Description,Quality,PlantId,LastUpdated,Re
portDateTime
Ballera Gas Plant,11 Nov 2014,PRODC,30,TJ   ,0,"OK",540079,10 Nov 2014 15:30:08,11 Nov 2014
10:06:49
Bellevue,11 Nov 2014,PRODC,50,TJ   ,,"S1",540083,17 Oct 2014 16:35:04,11 Nov 2014 10:06:49
Berwyndale South,11 Nov 2014,PRODC,120,TJ,,"S1",540069,10 Nov 2014 10:10:09,11 Nov 2014
10:06:49
Camden CSM,11 Nov 2014,PRODC,12.1,TJ,capacity,"OK",520075,10 Nov 2014 07:40:18,11 Nov
2014 10:06:49
Carpentaria Pipeline,11 Nov 2014,TRANC,119,TJ,,"OK",540059,11 Nov 2014 10:05:09,11 Nov 2014
10:06:49
Condabri Central,11 Nov 2014,PRODC,55.6,TJ,,"OK",540080,10 Nov 2014 14:40:12,11 Nov 2014
10:06:49
```

4.11 INT923 – Forecast Pipeline Flows

Overview

This report displays the forecast pipeline flows for each of the BB pipelines for the outlook period. Provision is made to report an outlook period of up to seven days (though more data can be stored in the BB system and used as required). The Victorian market will use scheduled injections for each BB pipeline (LMP, SWP) and the LNG facility as well as the scheduled Interconnect flow. The outlook period for the Victorian market is three days, being the current and next two gas days.

Typically, NominationQuantity values are associated with a Demand Zone, however in some cases, such quantities can relate to deliveries into Production Zones. Where the forecast applies to a bidirectional pipeline or interconnect, the NominationQuantity reported would be positive for flow in the default direction and negative by exception. Default flow is defined as per the Schedule of Default Pipeline Flow Direction (see References).

The following example illustrates a scenario where multiple Production Zones deliver gas to a common Demand Zone or hub. Using the conventions established in this example, it should be possible to interpret the data for any BB scenario.

The region serviced by the MAP pipeline and its laterals is shown as Nom. 200 and is inclusive of the corresponding Adelaide hub value shown as Nom. 140. Similarly, the region serviced by the SEAGas pipeline and its laterals is shown as Nom. 210 and is inclusive of the corresponding Adelaide hub value shown as Nom. 180. The total forecast for the Adelaide hub is the aggregation of the 140 and 180 nominations. An associated PlantId is reported with each of these records so that it is possible to determine the orientation / association of each of the forecasts (e.g. so it is possible to differentiate between the 2 Adelaide forecasts, and associate the 140 forecast with Moomba and the 180 forecast with Port Campbell respectively).

Report details

Purpose	This region specific report displays the forecast pipeline flows outlook for each of the BB pipelines.
Region specific	Yes
Report period	Outlook period as defined under either the pipeline contract or market rules.
Trigger	Hourly, when changes detected.
Update interval	Hourly
Access	Public
Output filename	int923_v[n]_ forecast_pipeline_flow_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of the Plant.
ZoneName	varchar(40)	No		Name of the Zone.
GasDate	varchar(20)		dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
NominationType	char(5)	No		Type of forecast. Valid entries are FIRMN, FIRMR, FCNOM, D+0, D+1 or D+2
NominationQuantity	decimal(18,6)	No		Nominatiion quantity expressed in TJ's.
Units	char(5)	No		Unit of measurement. Only TJ is used.
Description	varchar(255)	Yes		Free text description of record.
Quality	char(5)	No		Expression of data quality. Valid entries are OK, OOR, S1, S2.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique Zone identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,ZoneName,GasDate,NominationType,NominationQuantity,Units,Description,Quality,Plan
tId,ZoneId,LastUpdated,ReportDateTime
Eastern Gas Pipeline,Aust. Capital Territory (ACT),12 Nov 2014,FCNOM,1.5,TJ
,,"OK",520047,520009,11 Nov 2014 09:05:08,11 Nov 2014 11:06:56
Eastern Gas Pipeline,Sydney (SYD),12 Nov 2014,FCNOM,75.7,TJ,,"OK",520047,520008,11 Nov
2014 09:05:08,11 Nov 2014 11:06:56
Eastern Gas Pipeline,Aust. Capital Territory (ACT),13 Nov 2014,FCNOM,1.5,TJ
,,"OK",520047,520009,11 Nov 2014 09:05:08,11 Nov 2014 11:06:56
Eastern Gas Pipeline,Sydney (SYD),14 Nov 2014,FCNOM,41.5,TJ,,"OK",520047,520008,11 Nov
2014 09:05:08,11 Nov 2014 11:06:56
```

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4.12 INT924 - Actual Flows 7 Day

Overview

Where the flow applies to a bidirectional pipeline or interconnect, the ActualQuantity provided should be positive for flow in the default direction and negative by exception. Default flow is defined as per the Schedule of Default Pipeline Flow Direction (see References).

Report details

Purpose	This report displays the actual / historical production and pipeline delivery (Victorian PTS injections) data for all of the BB facilities for a rolling seven days.
Region specific	Yes
Report period	Rolling seven days
Trigger	Time trigger every 4 hours starting at 02:30
Update interval	4 hours
Access	Public
Output filename	int924_v[n]_actual_flow_7_day_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of the plant.
ZoneName	varchar(40)	No		Name of the Zone.
GasDate	varchar(20)	No	dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
DeliveryQuantity	decimal(18,2)	No		Actual quantity delivered from a plant into another plant (expressed in TJ's).
ReceiptQuantity	decimal(18,2)	No		Actual quantity receipted into a plant from another plant (expressed in TJ's).
Units	char(5)	No		Unit of measurement. Only TJ is used.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique Zone identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,ZoneName,GasDate,DeliveryQuantity,ReceiptQuantity,Units,PlantID,ZoneID,LastUpdated,ReportDateTime
Iona gas storage,Port Campbell,16 Jan 2016,50,0,TJ,530042,530014,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Longford to Melbourne,Vic PTS,16 Jan 2016,100,120,TJ,530048,530012,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Longford Gas Plant,Gippsland,16 Jan 2016,200,,TJ,530040,530013,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,Adelaide,16 Jan 2016,220,,TJ,550054,550016,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,MAP,16 Jan 2016,140,230,TJ,550054,550018,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,Moomba,16 Jan 2016,200,150,TJ,550054,550017,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.13 INT925 - Actual Flows Previous Month

Report details

Purpose	This report displays the actual / historical production and pipeline delivery (Victorian PTS injections) data for all of the non-exempt plant. This report is generated 7 days after the completion of each month covering the previously completed month.
Region specific	Yes
Report period	Previous completed month.
Trigger	Time trigger once a month, on the 7th day of the month at 17:00.
Update interval	Monthly
Access	Public
Output filename	int925_v[n]_actual_flow_prev_month_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantName	varchar(40)	No		Name of the plant.
ZoneName	varchar(40)	No		Name of the Zone.
GasDate	varchar(20)	No	dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
DeliveryQuantity	decimal(18,2)	No		Actual quantity delivered from a plant into another plant (expressed in TJ's).
ReceiptQuantity	decimal(18,2)	No		Actual quantity receipted into a plant from another plant (expressed in TJ's).
Units	char(5)	No		Unit of measurement. Only TJ is used.
PlantId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique plant identifier.

Column Name	Data Type	Nullable	Format	Description
ZoneId	int	No	Refer to section 2.2 Identifiers (Id's)	Unique Zone identifier.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantName,ZoneName,GasDate,DeliveryQuantity,ReceiptQuantity,Units,PlantID,ZoneID,LastUpdated,ReportDateTime
Iona gas storage,Port Campbell,16 Jan 2016,50,0,TJ,530042,530014,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Longford to Melbourne,Vic PTS,16 Jan 2016,100,120,TJ,530048,530012,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Longford Gas Plant,Gippsland,16 Jan 2016,200,,TJ,530040,530013,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,Adelaide,16 Jan 2016,220,,TJ,550054,550016,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,MAP,16 Jan 2016,140,230,TJ,550054,550018,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
Moomba to Adelaide Pipeline System,Moomba,16 Jan 2016,200,150,TJ,550054,550017,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.14 INT927 - Forecast Storage Flows

Overview

The Forecast Storage Flows report displays the following information:

- The aggregate quantity of natural gas nominated by BB shippers to be withdrawn from each delivery point on one of more BB pipelines and injected into the BB storage facility for that gas day.
- The aggregate quantity of natural gas nominated by BB shippers to be withdrawn from the BB storage facility and injected into each receipt point on one or more BB pipelines for that gas day.
- The aggregate quantity of natural gas forecast by BB shippers to be withdrawn from each delivery point on one or more BB pipelines and injected into the BB storage facility for each of the next 7 gas days if the BB storage provider has been provided with forecast quantities by BB shippers using the BB storage facility under contract or applicable market rules.
- The aggregate quantity of natural gas forecast by BB shippers to be withdrawn from the BB storage facility and injected into each receipt point on one or more BB pipelines for each of the next 7 gas days if the BB storage provider has been provided with forecast quantities by BB shippers using the BB storage facility under contract or applicable market rules.

Report details

Region specific	Yes
Report period	Current gas day and next seven gas days.
Trigger	On receipt and processing of new data submission.
Update interval	N/A
Access	Public
Output filename	int927_v[n]_forecast_storage_flows_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantID	int	No		Unique plant identifier.
PlantName	varchar(40)	No		Name of the plant.
GasDate	varchar(20)	No	dd MMM yyyy	Date of gas day applicable under either the pipeline contract or market rules.
NominationType	char(5)	No		Type of forecast. Valid entries are FIRMN, FIRMR, FCNOM, D+0, D+1, D+2, D+3, D+4, D+5 or D+6.
FlowDirection	char(8)	No		Flow direction. Valid entries are RECEIPT or DELIVERY.
NominationQuantity	decimal(18,2)	No		Nomination quantity expressed in TJ's.
Description	varchar(255)	Yes		Free text description of record.
Quality	char(5)	No		Expression of data quality. Valid entries are OK or OOR.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantID,PlantName,GasDate,NominationType,FlowDirection,NominationQuantity,Description,Quality,
LastUpdated,ReportDateTime
530042,Iona Gas storage,16 Feb 2016,FIRMN,Delivery,100,OK,10 Jan 2016 15:06:43,11 Jan 2016
14:17:21
530042,Iona Gas storage,17 Feb 2016,FCNOM,Delivery,140,OK,10 Jan 2016 15:06:43,11 Jan 2016
14:17:21
530042,Iona Gas storage,18 Feb 2016,FCNOM,Delivery,150,OOR,10 Jan 2016 15:06:43,11 Jan
2016 14:17:21
530042,Iona Gas storage,19 Feb 2016,FCNOM,Delivery,130,OK,10 Jan 2016 15:06:43,11 Jan 2016
14:17:21
530042,Iona Gas storage,20 Feb 2016,FCNOM,Delivery,120,OK,10 Jan 2016 15:06:43,11 Jan 2016
14:17:21
530042,Iona Gas storage,21 Feb 2016,FCNOM,Delivery,110,OK,10 Jan 2016 15:06:43,11 Jan 2016
14:17:21
```

4.15 INT928 - Medium Term Capacity Outlook

Overview

The Medium Term Capacity Outlook (MTCO) report displays the details of any activity expected to affect the daily capacity of a BB pipeline/facility.

The MTCO includes:

- The expected start and end dates of the activity expected to affect the daily capacity of the BB facility.
- A description of the activity expected to affect the daily capacity of the BB facility.
- The expected daily capacity of the BB facility during the period it is affected by the activity.

The outlook capacity type will be dependent upon the type of plant. For example, production and storage facilities will report production capacity, pipelines will report transmission capacity whilst interconnects and bi-directional pipelines will report transmission capacity and reverse direction transmission capacity.

Report details

Region specific	Yes
Report period	Current and future records.
Trigger	On receipt and processing of new data submission.
Update interval	N/A
Access	Public
Output filename	int928_v[n]_medium_term_capacity_outlook_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantID	int	No		Unique plant identifier.
PlantName	varchar(40)	No		Name of the plant.
PlantType	char(5)	No		Describes type of plant. Valid entries are: PIPE, PROD or STOR.
OutlookType	char(5)	No		Type of capacity being reported. Valid entries are PRODC, TRANC, REVC, WDLC or INJC.
OutlookDailyCapacity	decimal(18,2)	No		Outlook capacity quantity in TJ/day.
FromDate	varchar(20)	No	dd MMM yyyy	Date capacity comes into effect.
ToDate	varchar(20)	No	dd MMM yyyy	Date capacity is effective to.
Description	varchar(255)	No		Free text description of record.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantID,PlantName,PlantType,OutlookType,OutlookDailyCapacity,FromDate,ToDate,Description,LastUpdated,ReporDateTime
550054,MAPS,Pipe,TRANC,100,15/1/2016,20/1/2016,Annual maintenance,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
550054,MAPS,Pipe,REVC,90,15/1/2016,20/1/2016,Annual maintenance,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.16 INT929 - Uncontracted Capacity Outlook

Overview

The Uncontracted Capacity Outlook report displays the following details:

- Uncontracted primary pipeline capacity on BB pipelines for the next 12 months.

  Note: This does not include BB pipelines in the DTS.
- Uncontracted storage capacity on BB storage facilities for each of the next 12 months.

The outlook capacity type will be dependent upon the type of plant e.g. production and storage facilities will report production capacity, pipelines will report transmission capacity whilst interconnects and bi-directional pipelines will report transmission capacity and reverse direction transmission capacity.

If the outlook quantity has not been received by the designated cut-off time, the report will display a deemed value. The deemed value is the last known value against a particular facility. Where a deemed value is used for a month with missing data, the value is flagged with a quality type of ‘S1’. If no value has ever been submitted for a facility, then the outlook quantity for each outlook month will show as null.

Report details

Region specific	Yes
Report period	The next 12 months.
Trigger	At 1900 hrs AEST on the last gas day of each month; and On receipt and processing of new data submission.
Update interval	Monthly
Access	Public
Output filename	int929_v[n]_uncontracted_capacity_outlook_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PlantID	int	No		Unique plant identifier.
PlantName	varchar(40)	No		Name of the plant.
GasMonth	char(8)	No	MMM yyyy	Month that the uncontracted capacity is available.
OutlookType	char(5)	No		Type of capacity being reported. Valid entries are PRODC, TRANC, REVC, WDLC or INJC.
OutlookQuantity	decimal(18,2)	No		Outlook daily capacity quantity expressed in TJ’s.

Column Name	Data Type	Nullable	Format	Description
Description	varchar(255)	Yes		Free text description of record.
Quality	char(5)	No		Expression of data quality. Valid entries are OK and S1.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PlantID,PlantName,GasMonth,OutlookType,OutlookQuantity,Description,Quality,LastUpdated,Report
DateTime
550054,MAPS,Mar 2016,TRANC,100,,OK,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
550054,MAPS,Mar 2016,REVC,90,,S1,10 Jan 2016 15:06:43,11 Jan 2016 14:17:21
```

4.17 INT930 - Actual Gas Held in Storage

Overview

The Actual Gas Held in Storage report displays the actual quantity of gas held in the BB storage facility on the previous day.

Report details

Region specific	Yes
Report period	Rolling seven days
Trigger	Time trigger every four hours starting at 0:00 AEST
Update interval	4 hours
Access	Public
Output filename	int930_v[n]_actual_held_in_storage_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
StorageFacilityID	int	No		Unique storage facility identifier.
StorageFacilityName	varchar(40)	No		Name of the storage facility.
GasDate	varchar(20)	Yes	dd MMM yyyy	Date of the actual held quantity.
ActualHeldQuantity	decimal(18,2)	No		Actual held quantity expressed in TJ's.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
StorageFacilityID,StorageFacilityName,GasDate,ActualHeldQuantity,LastUpdated,ReportDateTime
530042,Iona Underground Gas Storage,10 Feb 2016,200,11 Feb 2016 15:06:43,12 Feb 2016 14:17:21
530038,LNG Storage Dandenong,10 Feb 2016,190,11 Feb 2016 15:06:43,12 Feb 2016 14:17:21
```

4.18 INT931 – Registered BB Contacts

Report details

Purpose	This report displays the registered user list of responsible contact persons for each BB Participant organisation as identified at registration or otherwise.
Region specific	No
Report period	Current records
Trigger	Daily at 17.00
Update interval	Daily
Access	Public
Output filename	int931_v[n]_registered_bb_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
PersonId	int	No		Unique person identifier.
PersonName	varchar(40)	No		Name of person.
CompanyName	varchar(40)	No		Name of company the person is associated with.
Title	varchar(40)	No		Job title of person.
Phone	varchar(20)	Yes		Landline phone of person.
Fax	varchar(20)	Yes		Facsimile of person.
Mobile	varchar(20)	Yes		Mobile phone of person.
Email	varchar(255)	Yes		Email address of person.
CompanyId	int	No		Unique identifier for the company that the person is associated with.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
PersonId,PersonName,CompanyName,Title,Phone,Fax,Mobile,Email,CompanyId,LastUpdate,Report Datetime
1201,Peter Perfect,GasCo,Manager Mkt Ops, 61396646610, 61396646512, 0408589856, peter.perfect@gasco.com.au, 30,14 Aug 2007 07:30:00,15 Aug 2007 07:30:00
```

4.19 INT933 – Registered BB Participants

Report details

Purpose	This report displays details of all registered organisations i.e the BB Participants of the Bulletin Board.
Region specific	No
Report period	Current records
Trigger	Daily at 17:00
Update interval	Daily
Access	Public
Output filename	int933_v[n]_registered_bb_1~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
CompanyId	int	No		Unique identifier for the company.
CompanyName	varchar(40)	No		Name of Company.
ABN	varchar(40)	No		Australian Business Number of company.
AddressType	varchar(40)	No		The type of the address eg. Head Office, Postal Address, etc.
Address	varchar(250)	No		Address of company based on AddressType.
Locale	varchar(40)	No		City location of the company.
Jurisdiction	char(5)	No		State location of the company.
Postcode	char(10)	No		Post code of the company.
CompanyPhone	varchar(20)	Yes		Main (reception) phone of company.
CompanyFax	varchar(20)	Yes		Main (reception) facsimile of company.
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
CompanyId,CompanyName,ABN,AddressType,Address,Locale,Jurisdiction,Postcode,CompanyPhone,CompanyFax,LastUpdate,ReportDatetime
13,Australian Energy Market Operator,.,Head Office,GPO Box 2008,Melbourne,VI,3001,03 9609 8000,03 9609 8080,20 Dec 2011 07:08:13,10 Nov 2014 17:06:37
```

4.20 INT944 – Transaction Log

Report details

Purpose	This report documents transaction details of each file submitted by Participant which have been processed by the Natural Gas Services Bulletin Board. A separate transaction log report is generated for each uploaded transaction file whether the file has passed of failed validations. Participants will only be able to access transaction log reports pertaining to their own transactions which are uploaded to their own BB folder.
Region specific	No
Report period	Records for the last submitted transaction file (a separate report per each uploaded transaction file).
Trigger	Upon receipt and processing of a new file.
Update interval	N/A
Access	Participant (as dictated by the [r] value in the filename)
Output filename	int944_v[n]_transaction_log_r_[r]~yyyymmddhhmmss.csv

Report contents

Column Name	Data Type	Nullable	Format	Description
AlarmNo	int	No		Unique alarm identifier.
ErrorCode	int	No		Error code as defined in Participant Build Pack.
ErrorDescription	varchar(255)	No		Details of error.
CompanyName	varchar(40)	No		Company name of file provider.
FileName	varchar(255)	No		Name of file that errored.
ErrorRow	varchar(255)	No		Content of the csv row that failed (only provided where the error description is not enough to identify the row).
LastUpdated	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time record was last modified.
ReportDateTime	varchar(20)	No	dd MMM yyyy hh:mm:ss	Date and time report was produced.

Sample file

```
AlarmNo,ErrorCode,ErrorDescription,CompanyName,FileName,ErrorRow,LastUpdated,ReportDateTime
12345,40,The PlantId provided does not exist on the database,Love Gas,123_LinepackAdequacy_20070503131500.CSV,3,01 Feb 2003 04:05:06,02 Feb 2003 04:05:06
```

4.21 Capacity Listing Page

The Capacity Listing Page is not available through the BB FTP server, however it is accessible via the BB website. It displays the capacity listing data from the Gas Supply Hub market which details the spare capacity that the Market Participants have available to trade. The capacity listing data will be presented in grid format.

For more details refer to the Relevant Documents and Guides listed in the 'References' section.

5 REFERENCES

The resources listed in this section contain additional related information that may assist you.

- AEMO Information and Support Hub: phone: 1300 AEMO 00 (1300 236 600), and follow the prompts; email: supporthub@aemo.com.au
- National Gas Rules (NGR) and National Electricity Rules (NER): see the Australian Energy Market Commission (AEMC) website http://www.aemc.gov.au

It is important to ensure that you are reading the current version of any document.

5.1 Relevant Documents and Guides

User guides for the Natural Gas Services Bulletin Board can be found within the Bulletin Board Information Tab on the GBB website, (here: Bulletin Board Documents).

This includes:

- Guide to NGSBB CSV File Transactions – detailed explanation for uploading CSV Files to provide data to AEMO for the BB website.
- Guide to NGSBB Reports (this document) – detailed explanation for accessing, viewing, and saving data reports available on the BB website.
- NGSBB Participation Registration Kit – information for prospective participants in the BB and National gas systems.
- BB Procedures – the procedures that regulate the operation of the GBB website.
- NGSBB User Guide – guide to using the BB website.
- Schedule of Default Pipeline Flow Direction – schedule that defines the default direction for all BB Pipelines.

It is important to ensure that you are reading the current version of any document.