GAS BULLETIN BOARD DATA MODEL REVISED TECHNICAL SPECIFICATION - OCTOBER 2016

AEMO RELEASE SCHEDULE SERIES: 938

AEMO

AUSTRALIAN ENERGY MARKET OPERATOR

IMPORTANT NOTICE

Purpose & audience

This document describes the technical changes required to participant's systems for the Gas BB October 2016 Release (Release). AEMO provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the N/ation/al Gas or Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Text in this format, indicates a reference to a document 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.

AEMO reference numbers

Included in each project heading is a Quality Centre Identifier (QCID) that provides useful tracking information. There may be none, one, or more QCIDs relevant to each project heading.

References to change notices are CN followed by the change notice number.

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Available to the public.

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Documents made obsolete

The release of this document changes only the version of Gas Bulletin Board Data Model Revised Technical Specification - October 2016.

Further Information

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

| AEMO Information and Support Hub | Phone: 1300 AEMO 00 (1300 236 600) and follow the prompts. |
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Feedback

To suggest corrections or improvements to this document, please call AEMO's Information and Support Hub.

CONTENTS

GLOSSARY

Abbreviations

Abbreviation	Explanation
AEMC	Australian Energy Market Commission
NGR	National Gas Rules
DI	Data Interchange

Special terms

Term	Definition
Data Interchange	The set of cooperating applications to replicate data between AEMO's Wholesale Market Systems and a participant's RDBMS conforming to the Electricity and/or Gas Data Models
Data Model	Refers to the Electricity or Gas Data Models, which is the definition of the interface to participants for data published by AEMO
Energy market systems web portal (Web Portal)	AEMO's Wholesale Market Management System; software, hardware, network and related processes to implement the wholesale energy market

1 DATA INTERCHANGE

For details about the supported software versions for this Release, see Baseline Assumptions on page 26.

1.1 Gas Data Model 1.3

This Release contains a new version of the Gas Data Model 1.3. This section describes the affected packages, tables, files, reports, and interfaces.

1.1.1 Definitions

Table 1   Gas Data Model terms used in this technical specification

Definition	Version	Description
Discontinued Report	n/a	When a Legacy version of a file replaces an existing Legacy file, some versions of the included reports may change. We refer to the replaced report versions as 'discontinued'.
		Important note: Participants on Gas Data Models versions prior to 1.2 may be impacted if a report is discontinued in a Legacy file they are receiving.
Discontinued version	1.1	Refers to the tables, files, and reports deployed in the EMMS Year-end Release November 2015.
File	n/a	Logically groups one or more reports delivered as a physical file, for example BILLING.
		Participants subscribe to files using the Data Interchange->Data Subscription menu in the Web Portal.
Latest version	1.3	Refers to the tables, files, and reports deployed for the Gas BB October 2016 Release.
Legacy file	1.2 or earlier	Currently supported but no longer updated. If a report is changed in a release then the previous version of the report (and the latest version of other reports in the file) is delivered from the Legacy file. For an example, see **Error! Reference source not found.**.
Previous version	1.2	Refers to the tables, files, and reports deployed in the previous Data Model release 1.2.
Report	n/a	A data report that loads into a data model table. Identified by its type, subtype, and version. For example BILLING,BILLINGASPAYMENTS,2

Figure 1   Legacy file example

The design of the data model supports the latest and previous version of a file. AEMO refers to the previous version as the Legacy version, for example NETWORK_OUTAGE_LEGACY. The example below describes what happens to an existing Legacy file in v4.19 when AEMO releases a new Data Model version, 4.21.
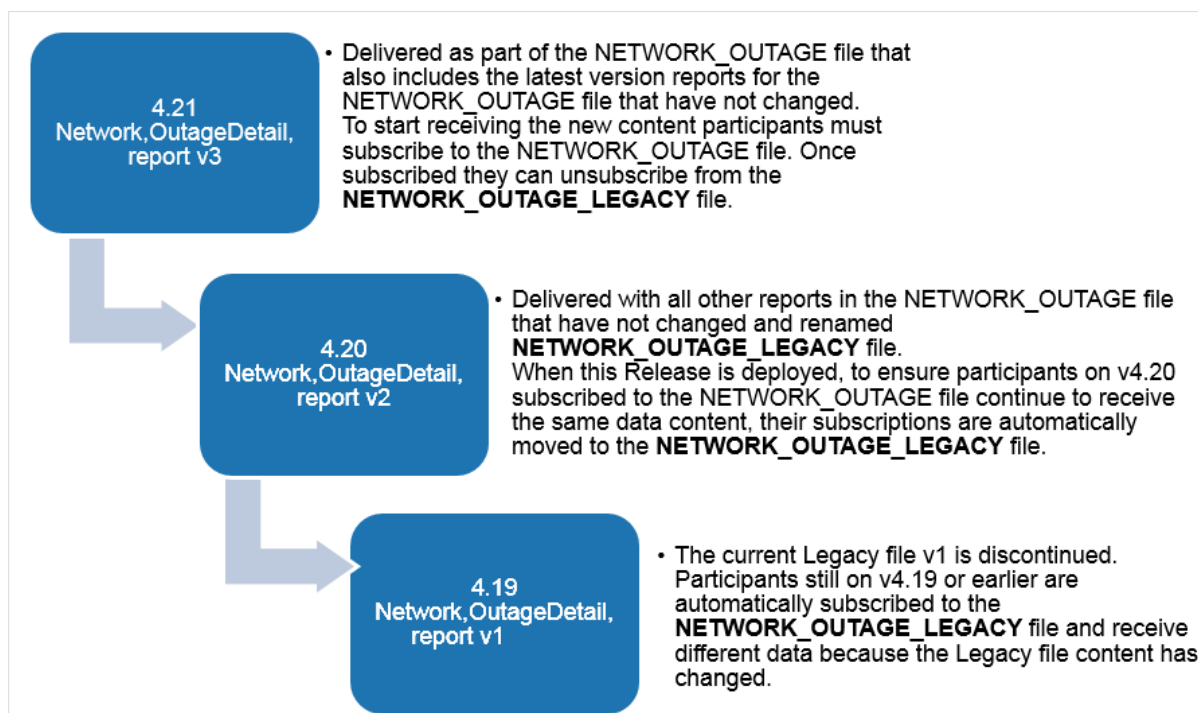
1.1.2   Modified packages and tables

After this Release is deployed:

- To receive the new data in the modified packages and tables, participants must upgrade to Gas Data Model 1.3.

- Versions of these tables in the Gas Data Model 1.2 are moved to Legacy versions.

- Participants' subscriptions are automatically moved to the Legacy file. This ensures that participants on Gas Data Model 1.2 subscribed to files that change, will continue to receive the same data content.

- Participants still on Gas Data Model 1.1, remain on any subscribed Legacy files but may receive different content if the Legacy file content has changed.

- Once subscribed, and the new data is received, you can unsubscribe from the Legacy files.

Table 2   Gas Data Model 1.3 modified packages and tables summary

Package	Table name	Change	Details
GAS_BB	GAS_CONNECTIONPOINT_DETAIL	New	Details for connection points

Package	Table name	Change	Details
	GAS_CONNECTIONPOINT_OPSTATE	New	Operating status for connection points
	GAS_CONNECTIONPOINT	New	Entity table for connection points
	GAS_FLOW_CAP_OUTLOOK_MT	New	Medium-term capacity outlook data
	GAS_FLOW_CAP_OUTLOOK_UNCON	New	Uncontracted capacity outlook data
	GAS_GATESTATION_CAPACITY	New	Capacity information for gate station connection points
	GAS_GATESTATION_OWNER	New	Ownership information for gate station connection points
	GAS_FLOW_ACTUAL_AGGREGATE	New	Actual flow and gas held in storage aggregated to a facility level
	GAS_FLOW_STORAGE_FORECAST	New	Storage forecast flow data
	GAS_SEC_PIPE_CAP_ORDERS	New	Bids and Offers for secondary pipeline capacity
	GAS_SEC_PIPE_CAP_ORDERS_TRK	New	Bids and Offers for secondary pipeline capacity tracking table
	GAS_SEC_PIPE_CAP_TRADES	New	Trades of secondary pipeline capacity
	GAS_SEC_PIPE_CAP_TRADES_TRK	New	Trades of secondary pipeline capacity tracking table

Package: Gas_BB

New table: GAS_CONNECTIONPOINT_DETAIL

Name	GasBB.Gas_ConnectionPoint_Detail
Comment	Time-evolving table for connection points holding attributes that can change over time
Visibility	Public
Trigger	Triggered on receipt and processing of new data

Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	ConnectionPointId, EffectiveDate, VersionDateTime

Columns

Field Name	Data type	Comment
ConnectionPointId	Numeric(10,0)	Unique identifier for connection point
EffectiveDate	DateTime	Effective date of the record
VersionDateTime	DateTime	Version timestamp of the record
ParentPlantId	Numeric(10,0)	Unique identifier for the parent facility of this connection point
ConnectedPlantId	Numeric(10,0)	Unique identifier for the connected facility for this connection point
AuthorisedDate	DateTime	Authorisation timestamp for the record
AuthorisedBy	Varchar(30)	User that authorised the record
LastChanged	DateTime	Last changed date for the record

New table: GAS_CONNECTIONPOINT_OPSTATE

Name	GasBB.Gas_ConnectionPoint_OpState
Comment	Time-evolving operating status (active/inactive flag) table for connection points
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	ConnectionPointId, EffectiveDate, VersionDateTime

Columns

Field Name	Data type	Comment
ConnectionPointId	Numeric(10,0)	Unique identifier for connection point
EffectiveDate	DateTime	Effective date of the record
VersionDateTime	DateTime	Version timestamp of the record
OperatingState	varchar(20)	Operating state of the connection point. Must be either 'ACTIVE' or 'INACTIVE'
AuthorisedDate	DateTime	Authorisation timestamp for the record
AuthorisedBy	varchar(30)	User that authorised the record
LastChanged	DateTime	Last changed date for the record

New table: GAS_CONNECTIONPOINT

Name	GasBB.Gas_ConnectionPoint
Comment	Entity table for connection points
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key	ConnectionPointId

Columns

Field Name	Data type	Comment
ConnectionPointId	Numeric(10,0)	Unique identifier for connection point
ConnectionPointName	varchar(200)	Description of the connection point
ConnectionType	varchar(20)	Type of connection point. Must be one of 'RECEIPT' or 'DELIVERY'

Field Name	Data type	Comment
IsGateStation	Numeric(1,0)	A flag to indicate that this connection point is a gate station. A value of 1 indicates a gate station
LastChanged	DateTime	Last changed date for the record

New table: GAS_FLOW_CAP_OUTLOOK_MT

Name	GasBB.Gas_Flow_Capacity_Outlook_MediumTerm
Comment	Information that the operator of a facility issues, about matters expected to affect the daily capacity of the facility, for an outlook period extending beyond the current short term capacity outlook provided by the relevant operator
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key	RecordId
Secondary index	FromGasDate, PlantId, OutlookType, VersionDateTime

Columns

Field Name	Data type	Comment
RecordId	Numeric(10,0)	Record identifier
PlantId	Numeric(10,0)	Unique identifier for the facility
OutlookType	varchar(5)	Outlook type
FromGasDate	DateTime	Start date (inclusive) of the record
ToGasDate	DateTime	End date (exclusive) of the record
VersionDateTime	DateTime	Version timestamp of the record
DisabledDateTime	DateTime	Audit timestamp of the record
ActiveFlag	Numeric(1,0)	Active flag for the record. A value of 1 indicates the record is currently active
OutlookDailyCapacity	Numeric(18,8)	Quantity of available capacity during the defined period
Units	varchar(5)	The units in which the outlook quantity is recorded. Always equal to 'TJ'.

Field Name	Data type	Comment
Description	varchar(255)	Description of the capacity outlook entry
Quality	varchar(5)	Quality indicator for the data
LastChanged	DateTime	Last changed date for the record

New table: GAS_FLOW_CAP_OUTLOOK_UNCON

Name	GasBB.Gas_Flow_Capacity_Outlook_Uncontracted
Comment	Primary pipeline or storage capacity that is available for sale by the facility operator. The outlook is provided for 12 months into the future on a per-month basis
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	OutlookYear, OutlookMonth, PlantId, OutlookType, VersionDateTime

Columns

Field Name	Data type	Comment
PlantId	Numeric(10,0)	Unique identifier for the facility
OutlookType	varchar(5)	Outlook type
OutlookYear	Numeric(4,0)	Calendar year
OutlookMonth	Numeric(2,0)	Calendar month (1-12)
VersionDateTime	DateTime	Version timestamp of the record
OutlookQuantity	Numeric(18,8)	Quantity of available capacity during the defined period
Quality	varchar(5)	Quality indicator for the data

Field Name	Data type	Comment
Units	varchar(5)	The units in which the outlook quantity is recorded. Always equal to 'TJ'
Description	varchar(255)	Description of the capacity outlook entry
LastChanged	DateTime	Last changed date for the record

New table: GAS_GATESTATION_CAPACITY

Name	GasBB.Gas_GateStation_StandingCapacity
Comment	Time-evolving standing capacity information for gate station connection points
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	ConnectionPointId, EffectiveDate, VersionDateTime

Columns

Field Name	Data type	Comment
ConnectionPointId	Numeric(10,0)	Unique identifier for connection point
EffectiveDate	DateTime	Effective date of the record
VersionDateTime	DateTime	Version timestamp of the record
StandingCapacity	Numeric(18,8)	Standing capacity (TJ) of the gate station
Description	varchar(255)	Description of the capacity outlook entry
AuthorisedDate	DateTime	Authorisation timestamp for the record
AuthorisedBy	varchar(30)	User that authorised the record
LastChanged	DateTime	Last changed date for the record

New table: GAS_GATESTATION_OWNER

Name	GasBB.Gas_GateStation_RegisteredOwner
Comment	Time-evolving organisation ownership information for gate station connection points
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	ConnectionPointId, EffectiveDate, VersionDateTime

Columns

Field Name	Data type	Comment
ConnectionPointId	Numeric(10,0)	Unique identifier for connection point
EffectiveDate	DateTime	Effective date of the record
VersionDateTime	DateTime	Version timestamp of the record
OwnerName	varchar(200)	Name of the organisation that owns the gate station
AuthorisedDate	DateTime	Authorisation timestamp for the record
AuthorisedBy	varchar(30)	User that authorised the record
LastChanged	DateTime	Last changed date for the record

New table: GAS_FLOW_ACTUAL_AGGREGATE

Name	GasBB.Gas_Flow_Actual_Aggregate
Comment	Actual flow and actual gas held in storage data aggregated to a facility level
Visibility	Public

Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	GasDate, PlantId, FlowDirection, VersionDateTime

Columns

Field Name	Data type	Comment
GasDate	DateTime	Gas date
PlantId	Numeric(10,0)	Unique identifier for the facility
ZoneId	Numeric(10,0)	Unique zone identifier
FlowDirection	varchar(10)	Direction of flow for the submission record. Must be one of 'RECEIPT', 'DELIVERY' or 'HELD'
VersionDateTime	DateTime	Version timestamp of the record
ActualQuantity	Numeric(18,8)	Quantity of actual flow for the gas date
Units	varchar(5)	The units in which the outlook quantity is recorded. Always equal to 'TJ'
Quality	varchar(5)	Quality indicator for the data
LastChanged	DateTime	Last changed date for the record

New table: GAS_FLOW_STORAGE_FORECAST

Name	GasBB.Gas_Flow_Storage_Forecast
Comment	Nominated and forecast flow data from operators of storage facilities
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS

Primary key (in order)	GasDate, PlantId, NominationType, FlowDirection, VersionDateTime

Columns

Field Name	Data type	Comment
GasDate	DateTime	Gas date
PlantId	Numeric(10,0)	Unique identifier for the facility
NominationType	varchar(5)	Nomination type
FlowDirection	varchar(10)	Direction of flow for the submission record. Must be one of 'RECEIPT', 'DELIVERY' or 'HELD'
VersionDateTime	DateTime	Version timestamp of the record
NominationQuantity	Numeric(18,8)	Quantity of forecast gas flow
Units	varchar(5)	The units in which the outlook quantity is recorded. Always equal to 'TJ'.
Description	varchar(255)	Description of the capacity outlook entry
Quality	varchar(5)	Quality indicator for the data
LastChanged	DateTime	Last changed date for the record

New table: GAS_SEC_PIPE_CAP_ORDERS

Name	GasBB.Gas_Secondary_Pipeline_Capacity_Order
Comment	Information related to the bids and offers of secondary pipeline capacity, which is derived from a secondary pipeline capacity trading platform
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS

Primary key (in order)	OrderId

Columns

Field Name	Data type	Comment
OrderId	Varchar(40)	Unique identifier for the Order
SubmittingCompanyId	Numeric(10,0)	Name of the company submitting the data to AEMO
VersionDateTime	DateTime	Version timestamp of the record
PlantId	Numeric(10,0)	Unique identifier for the facility
BuySell	Varchar(5)	Indicates whether the shipper is either looking to buy or sell spare capacity
Quantity	Numeric(18,8)	Quantity of actual flow for the gas date
Price	Numeric(18,8)	Spare capacity price expressed in $ per GJ
FromGasDate	DateTime	Date spare capacity comes into effect
ToGasDate	DateTime	Date spare capacity is effective to
ReceiptPoint	varchar(100)	Name of the location where gas will be receipted into the pipeline
DeliveryPoint	varchar(100)	Name of the location where gas will be delivered out of the pipeline
ContactDetails	varchar(1000)	Name and number of the shippers contact person
LastChanged	DateTime	Last changed date for the record

New table: GAS_SEC_PIPE_CAP_ORDERS_TRK

Name	GasBB.Gas_Secondary_Pipeline_Capacity_Order_Trk
Comment	Bids and offer tracking information of secondary pipeline capacity
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	SubmittingCompanyId, VersionDateTime

Columns

Field Name	Data type	Comment
SubmittingCompanyId	Numeric(10,0)	Name of the company submitting the data to AEMO
VersionDateTime	DateTime	Version timestamp of the record
LastChanged	DateTime	Last changed date for the record

New table: GAS_SEC_PIPE_CAP_TRADES

Name	GasBB.Gas_Secondary_Pipeline_Capacity_Trade
Comment	Information related to summary trading data, which is derived from a secondary pipeline capacity trading platform.
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	TradeId

Columns

Field Name	Data type	Comment
TradeId	Varchar(40)	Unique identifier for the Trade
SubmittingCompanyId	Numeric(10,0)	Name of the company submitting the data to AEMO
VersionDateTime	DateTime	Version timestamp of the record
PlantId	Numeric(10,0)	Unique identifier for the facility
GasDate	DateTime	Gas date
NameplateCapacity	Numeric(18,8)	Official pipeline capacity expressed in GJ
DailyNominations	Numeric(18,8)	Daily aggregate quantity of gas (expressed in GJ) nominated for delivery from the pipeline
DailyUtilisationPercent	Numeric(18,8)	Percentage of the pipeline capacity that is utilised per day
AvailableCapacity	Numeric(18,8)	Operational capacity minus nominations each day. Expressed in GJ
CapacityOnOffer	Numeric(18,8)	Sum of total capacity offered for sale expressed in GJ
DailyCapacityTraded	Numeric(18,8)	Sum of total daily sold capacity expressed in GJ
DailyCapacity	Numeric(18,8)	Operational capacity
ContractedCapacity	Numeric(18,8)	Firm-forward, contracted pipeline capacity expressed in GJ.
AverageAnnualCapacityTraded	Numeric(18,8)	Sum of total annual sold capacity divided by number of days, year to date. Expressed in GJ.
TransmissionDirection	varchar(20)	Direction of transmission: FORWARD or REVERSE.
LastChanged	DateTime	Last changed date for the record

New table: GAS_SEC_PIPE_CAP_TRADES_TRK

Name	GasBB.Gas_Secondary_Pipeline_Capacity_Trade_Trk
Comment	Information related to summary trading data, which is derived from a secondary pipeline capacity trading platform
Visibility	Public
Trigger	Triggered on receipt and processing of new data
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\GASBB\REPORTS
Primary key (in order)	SubmittingCompanyId, VersionDateTime

Columns

Field Name	Data type	Comment
SubmittingCompanyId	Numeric(10,0)	Name of the company submitting the data to AEMO
VersionDateTime	DateTime	Version timestamp of the record
LastChanged	DateTime	Last changed date for the record

1.1.3 Participant interfaces changes

Package Name	MMS Data Model table	File ID	CSV report type	Modification
FLOW_FORECAST	GAS_FLOW_STORAGE_FORECAST	GASBB_FLOW_STORAGE_FORECAST	FLOW_FORECAST,GAS_FLOW_STORAGE_FORECAST,1	Added
FLOW_METERED	GAS_FLOW_ACTUAL	GASBB_INT924	FLOW_METERED,GAS_FLOW_ACTUAL,1	Added
	GAS_FLOW_ACTUAL	GASBB_FLOW_ACTUAL_LEGACY	FLOW_METERED,GAS_FLOW_ACTUAL,1	Added
	GAS_FLOW_ACTUAL_AGGREGATE	GASBB_FLOW_ACTUAL_AGGREGATE	FLOW_METERED,GAS_FLOW_ACTUAL_AGGREGATE,1	Added
MARKET_CONFIG	GAS_CONNECTIONPOINT	GASBB_CONNECTIONPOINT	MARKET_CONFIG,GAS_CONNECTIONPOINT,1	Added
	GAS_CONNECTIONPOINT_DETAIL	GASBB_CONNECTIONPOINT_DETAIL	MARKET_CONFIG,GAS_CONNECTIONPOINT_DETAIL,1	Added
GAS_BB	GAS_CONNECTIONPOINT_OPSTATE	GASBB_CONNECTIONPOINT_OPSTATE	MARKET_CONFIG,GAS_CONNECTIONPOINT_OPSTATE,1	Added
	GAS_FLOW_CAP_OUTLOOK_MT	GASBB_FLOW_CAPACITY_OUTLOOK_MT	MARKET_CONFIG,GAS_FLOW_CAP_OUTLOOK_MT,1	Added
	GAS_FLOW_CAP_OUTLOOK_UNCON	GASBB_FLOW_CAPACITY_OUTLOOK_UNCON	MARKET_CONFIG,GAS_FLOW_CAP_OUTLOOK_UNCON,1	Added
	GAS_GATESTATION_CAPACITY	GASBB_GATESTATION_CAPACITY	MARKET_CONFIG,GAS_GATESTATION_CAPACITY,1	Added

Package Name	MMS Data Model table	File ID	CSV report type	Modification
	GAS_GATESTATION_OWNER	GASBB_GATESTATION_OWNER	MARKET_CONFIG,GAS_GATESTATION_OWNER,1	Added
	GAS_SEC_PIPE_CAP_ORDERS	GASBB_SEC_PIPE_CAPACITY_ORDERS	SECONDARY_CAPACITY,GAS_SEC_PIPE_CAP_ORDERS,1	Added
	GAS_SEC_PIPE_CAP_ORDERS_TRK	GASBB_SEC_PIPE_CAPACITY_ORDERS	SECONDARY_CAPACITY,GAS_SEC_PIPE_CAP_ORDERS_TRK,1	Added
	GAS_SEC_PIPE_CAP_TRADES	GASBB_SEC_PIPE_CAPACITY_TRADES	SECONDARY_CAPACITY,GAS_SEC_PIPE_CAP_TRADES,1	Added
	GAS_SEC_PIPE_CAP_TRADES_TRK	GASBB_SEC_PIPE_CAPACITY_TRADES	SECONDARY_CAPACITY,GAS_SEC_PIPE_CAP_TRADES_TRK,1	Added

1.1.4   File interface changes

Package ID	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
GAS_BB	GASBB_FLOW_STORAGE_FORECAST	Storage forecast flow data	*_GASBB_FLOW_STORAGE_FORECAST_*.CSV	On new data	Added	No

Package ID	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
GAS_BB	GASBB_INT924	Actual production and pipeline delivery data	*_GASBB_INT924_*.CSV	On new or updated data	Discontinued	No
	GASBB_FLOW_ACTUAL_LEGACY	Actual production and pipeline delivery data	*_GASBB_INT924_*.CSV	On new or updated data	Deprecated	Yes
	GASBB_FLOW_ACTUAL_AGGREGATE	Actual flow and gas held in storage aggregated to a facility level	*_GASBB_FLOW_ACTUAL_AGGREGATE_*.CSV	On new data	Added	No
	GASBB_CONNECTIONPOINT	Entity table for connection points	*_GASBB_CONNECTIONPOINT_*.CSV	On new or updated data	Added	No
	GASBB_CONNECTIONPOINT_DETAIL	Details for connection points	*_GASBB_CONNECTIONPOINT_DETAIL_*.CSV	On new data	Added	No

Package ID	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
	GASBB_CONNECTIONPOINT_OPSTATE	Operating status for connection points	*_GASBB_CONNECTIONPOINT_OPSTATE_*.CSV	On new data	Added	No
	GASBB_FLOW_CAPACITY_OUTLOOK_MT	Medium-term capacity outlook data	*_GASBB_FLOW_CAPACITY_OUTLOOK_MT_*.CSV	On new or updated data	Added	No
	GASBB_FLOW_CAPACITY_OUTLOOK_UNCON	Uncontracted capacity outlook data	*_GASBB_FLOW_CAPACITY_OUTLOOK_UNCON_*.CSV	On new data	Added	No
	GASBB_GATESTATION_CAPACITY	Capacity information for gate station connection points	*_GASBB_GATESTATION_CAPACITY_*.CSV	On new data	Added	No
	GASBB_GATESTATION_OWNER	Ownership information for gate station connection points	*_GASBB_GATESTATION_OWNER_*.CSV	On new data	Added	No

| Package ID	File ID	Description	Batcher file masks	Frequency	Modification	Auto-subscription
	GASBB_SEC_PIPE_CAPACITY_ORDERS	Bids and Offers for secondary pipeline capacity	*_GASBB_SEC_PIPE_CAPACITY_ORDERS_*.CSV	On new data	Added	No
	GASBB_SEC_PIPE_CAPACITY_TRADES	Trades of secondary pipeline capacity	*_GASBB_SEC_PIPE_CAPACITY_TRADES_*.CSV	On new data	Added	No

1.1.5 Non-functional changes

None

1.1.6 Discontinued Legacy files

MMS Data Model table	File ID	Delivered in file	CSV report type	Replaced by
GAS_FLOW_ACTUAL	GASBB_INT924	*_GASBB_INT924_*.CSV	FLOW_METERED,GAS_FLOW_ACTUAL, 1	GASBB_FLOW_ACTUAL_LEGACY

1.2 How to apply a Data Model upgrade
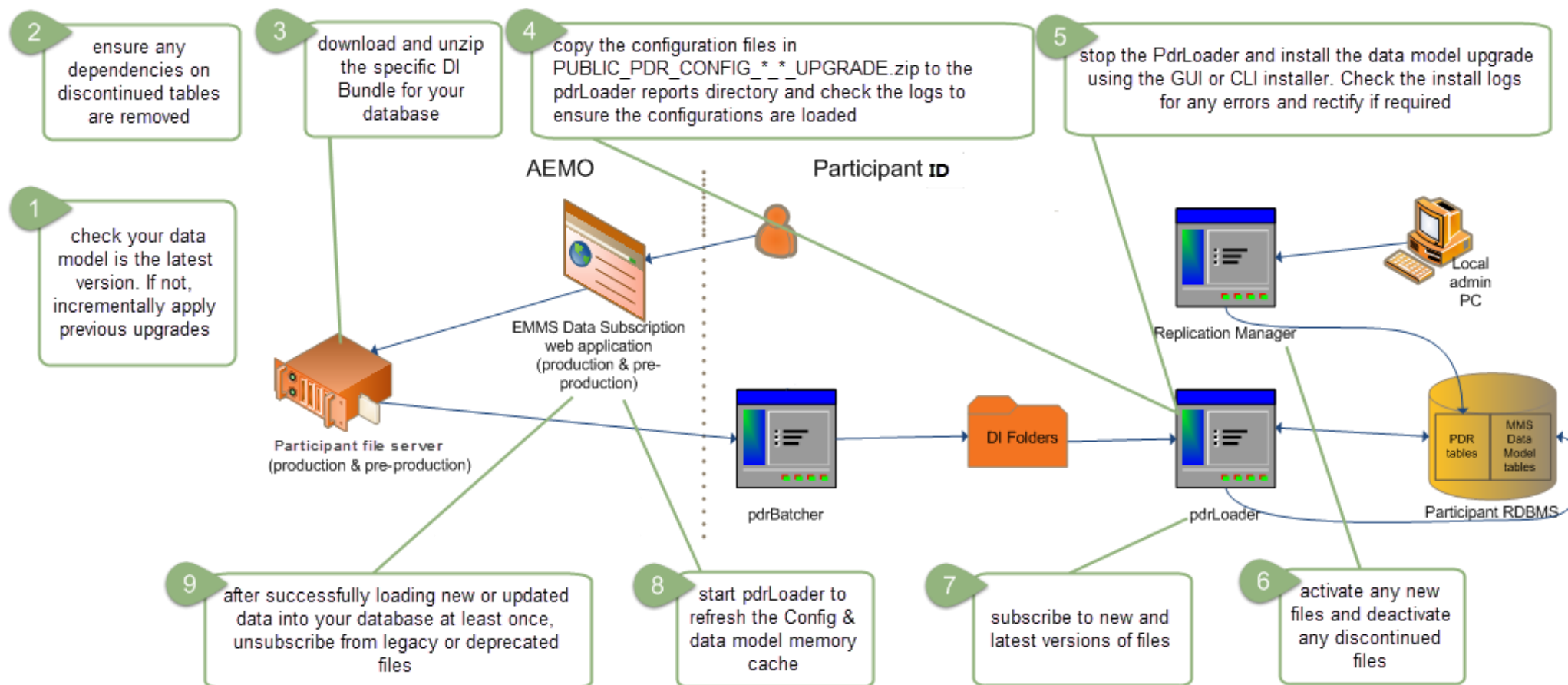
2 BASELINE ASSUMPTIONS

AEMO works to the assumption that participants' systems are compliant with the minimum supported configuration of the following software and systems.

2.1 Software

The current software versions are:

	Current version	Release
Java	7	AEMO expects this software will run on later Java releases. A future project will complete certification against Java 8
Windows service	64 bit JRE	32 bit JRE still supported

2.2 Data Interchange

The current DI software versions are:

	Current version	Still supported
Gas BB Data Model	1.3 changes for this release	1.2
PDR Loader	7.3	7.3
PDR Batcher	7.3	7.3

	Current version	Still supported
Replication Manager	v3.0.16	v3.0.16

You can find Data Interchange software and associated documentation in the following locations:

- Releases directory on the participant file share: FTP to 146.178.211.25; Data Interchange, pdrBatcher, pdrLoader, or Replication Manager.
- Data Subscription web application in the Web Portal:
  - Production: https://portal.prod.nemnet.net.au
  - Pre-production: https://portal.preprod.nemnet.net.au
- AEMO's website: IT Systems & Change web page.

2.3 Database management systems

	Current	Still supported
Microsoft SQL Server	2012	2008
Oracle	12c	11g

3 IMPLEMENTATION

3.1 Approval or agreement to change

AEMO requests approval to proceed from all participant change controllers. For approval dates, see Release Schedule 938.

3.2 Transition

Participants are required to transition from the existing Excel summary report to the new CSV-based summary files.

3.3 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.

- Change their systems prior to the implementation of this Release.

- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

- AEMO encourages participants to make use of the four-week pre-production period, to assess and test any impact to their market systems and business processes. Participants using data replication products critical to their business are strongly advised to participate in the pre-production rollout and testing period.

3.4 Upgrade options

From a wholesale energy market system's focus, participants need to:

1. Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.

2. Plan to upgrade their Data Interchange installations to the latest versions to realise benefits from the new functionality, operate against newly supported platforms, and to maintain ongoing support from AEMO. For help, see How to on page 25.

3. Schedule staff and resources to upgrade their market systems from the implementation of this Release. To maintain systems in-line with AEMO's market systems, AEMO recommends upgrading within six months of the implementation date.

4. Change their systems prior to the deployment of this Release to ensure they are up-to-date. AEMO recommends participants' wholesale market systems are compliant with the latest Data Interchange software versions, see Baseline Assumptions on page 26.

3.5 What happens if I do not upgrade?

If participants' systems are compliant with AEMO's supported configuration defined in the Baseline Assumptions on page 26, this Release does not impact Data Interchange systems immediately. Depending on participant's systems, not upgrading may result in the following issues:

- New data is not received to the new fields or tables because the data model elements are not created on the participant's database.

- Participants not subscribed to the latest versions of files, using the Data Subscriptions web application, will not receive the new data.

- Content in Legacy files may change after deployment of this Release.

- If participants have a system dependency on the formats of the non-Electricity or -Gas Data Model reports they need to manage these dependencies using the detail provided in this technical specification. Participants need to review and assess the impact on their market systems with respect to the changes implemented as part of this Release.

Participant systems incorrectly configured and not compliant with the Baseline Assumptions on page 26 may suffer data loss.