

MMS Data Model Package Summary

AEMO Electricity Data Model v5.2.0 Oracle

23/03/2023

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2 List of packages

Name	Comment
CONFIGURATION	MMS Data Model Configuration Management and Control
ANCILLARY_SERVICES	Ancillary Service Contract Data
ASOFFER	Offer data for Ancillary Service Contracts
BIDS	Energy and Market Based FCAS Offers
BILLING_CONFIG	Configuration data for the Billing Process
BILLING_RUN	Results from a published Billing Run. The settlement data and billing run data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL and two REVISION runs in addition to the daily runs.
	Each billing run is uniquely identified by contract year, week no and bill run no.
DEMAND_FORECASTS	Regional Demand Forecasts and Intermittent Generation forecasts.
DISPATCH	Results from a published Dispatch Run
FORCE_MAJEURE	Market Suspensions and administer pricing event data
GD_INSTRUCT	General Dispatch Instruction data
GENERIC_CONSTRAINT	Generic Constraint Standing Data and Invocations
IRAUCTION	Inter-regional Residue Auction data
MARKET_CONFIG	Standing data for the market
MARKET_NOTICE	Market Notice data

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METER_DATA	Wholesale market aggregated Meter data
MTPASA	Results from a published Medium Term PASA Run and regionaggregate offered PASA Availability of scheduled generators
P5MIN	Results from a published Five-Minute Predispatch Run
PARTICIPANT_REGISTRATION	Participant registration data
PRE_DISPATCH	Results from a published Predispatch Run
	Storage options
	There are 2 ways to define the Pre-dispatch table primary keys (PKs) to define which data is loaded to the database and which data is retained:
	Option 1 (default)
	Overwrite older records when they are succeeded by later versions for the same entity and period. This is the Data Model default and results in the consumption of far less storage. Data Model updates issued by AEMO target this configuration so participants implementing option 2a or 2b must maintain their changes when AEMO releases a new Data Model version.
	PredispatchLoad: DateTime, DUID
	PredispatchInterconnectorRes: DateTime, InterconnectorID,
	PredispatchPrice: DateTime, RegionID
	PredispatchPriceSensitivities: DateTime, RegionID
	PredispatchInterSensitivities: InterconnectorID, DateTime
	PredispatchRegionsum: DateTime, RegionID
	Option 2a
	Retain only the Pricing records for tables relating to Price data and Physical records for tables relating to Physical data (e.g. targets). Approximately 50 times more storage volumes than option 1.
	PredispatchLoad: PredispatchSeqNo, DateTime, DUID
	PredispatchInterconnectorRes: PredispatchSeqNo, DateTime, InterconnectorID,
	PredispatchPrice: PredispatchSeqNo, DateTime, RegionID
	PredispatchPriceSensitivities: PredispatchSeqNo, DateTime,

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RegionID

PredispatchInterSensitivities: PredispatchSeqNo, DateTime, InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, DateTime, RegionID

Option 2b

Retain both Physical and Pricing data for Intervention runs. If Intervention cases are stored in entirety, you must select the data carefully. The logic is the same as for Dispatch, i.e. Intervention Pricing is always where Intervention = 0 and Physical data is where Intervention = PredispatchCaseSolution.Intervention for the same PredispatchSegNo.

Doubles the storage of option 2a but ONLY for Intervened cases.

PredispatchLoad: PredispatchSeqNo, Intervention, DateTime, DUID

PredispatchInterconnectorRes: PredispatchSeqNo, Intervention,DateTime, InterconnectorID,

PredispatchPrice: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSeqNo, Intervention, DateTime, InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, Intervention, DateTime, RegionID

Notes:

The data in the PredispatchIS file is always ordered so the pdrLoader writes the relevant data first and discards the subsequent irrelevant data, or writes the subsequent data, depending on how the PKs are defined.

You may order the PKs in a different order, depending on your local requirements. Any decision to change the PK column composition or order must consider the functional and performance impacts to existing applications or queries.

The pdrLoader caches PK definitions for performance reasons so any change to the PKs requires a restart of the application.

The TRANSACTION_TYPE default in the PDR_REPORT_RECORDS management tables for PREDISPATCH* tables is UPDATE-INSERT. You can modify this to INSERT for Option 2b, as the attempt to first perform an update becomes redundant. This can improve load performance.

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RESERVE_DATA	Energy and FCAS reserve requirements
SETTLEMENT_CONFIG	Configuration and input data for the Settlements Process
SETTLEMENT_DATA	Results from a published Settlements Run. The settlement data and billing run data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL and two REVISION runs in addition to the daily runs.
STPASA_SOLUTION	Results from a published Short Term PASA Run
TRADING_DATA	30 minute Trading interval results
HISTORICAL TABLES	These tables are no longer used
PDPASA	The PDPASA package provides a 30-minute solving process to the Market systems
	The current methodology for calculating reserves in the PreDispatch timeframe is determined in a post processing step using a heuristic calculation based the results and Interconnector limits from the PreDispatch run.
	The calculation is a reserve assessment based on the PASA solver similar to existing ST and MT PASA business processes
	The process reflects all intra-regional and inter-regional network constraints as an input to the process
PRUDENTIALS	Prudential Management
MCC_DISPATCH	Results from the Marginal Constraint Cost (MCC) re-run of the dispatch process. The MCC forms part of the part of the AER"s "Electricity transmission network service providers Service target performance incentive Scheme"
NETWORK	Configuration data for the physical network
VOLTAGE_INSTRUCTIONS	Instructions for MVAr Dispatch

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3 Description of the model AEMO Electricity Data Model v5.2.0 Oracle

Background

The MMS Data Model is the definition of the interface to participants of data published by AEMO from the NEM system. A database conforming to the MMS Data Model can contain a local copy of all current participant-specific data recorded in the main NEM production database. The target databases have been called such names as the Participant Database, the Participant InfoServer and the Replica Database.

The MMS Data Model includes database tables, indexes and primary keys. The model is currently exposed as a physical model, so is different in presentation for each RDBMS. However, the same logical model underlies all the physical models published by AEMO.

The MMS Data Model is the target model for products transferring data from AEMO to each participant. Current product supplied by AEMO for data transfer is Participant Data Replication (PDR), with some support for the superseded Parser.

Compatibility of the transfer products with the MMS Data Model is the responsibility of those products and their configuration. AEMO's intention is to supply the data transfer products preconfigured to deliver data consistent with the MMS Data Model, noting differences where they occur (e.g. for historical reasons).

Entity Diagrams

The entity diagrams show the key columns. Relationships have now been included in many cases.

Note:

The National Electricity Market registration classification of Yarwun Power Station Unit 1 (dispatchable unit ID: YARWUN_1) is market non-scheduled generating unit. However, it is a condition of the registration of this unit that the Registered Participant complies with some of the obligations of a Scheduled Generator. This unit is dispatched as a scheduled generating unit with respect to its dispatch offers, targets and generation outputs. Accordingly, information about YARWUN_1 is reported as scheduled generating unit information.

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4 Package: CONFIGURATION

Name CONFIGURATION

Comment MMS Data Model Configuration Management and Control

4.1 List of tables

Name	Comment
MMS_DATA_MODEL_AUDIT	MMS_DATA_MODEL_AUDI T shows the audit trail of scripts applied to this installation of MMS Data Model. Participants should ensure that if a database is cloned the content of this table is copied to the target database.

4.2 Diagram: Entities: Configuration

MMS_DATA_MODEL_AUDIT

INSTALLATION_DATE MMSDM_VERSION INSTALL_TYPE

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5 Package: ANCILLARY_SERVICES

Name ANCILLARY_SERVICES

Comment Ancillary Service Contract Data

5.1 List of tables

Name	Comment
CONTRACTAGC	CONTRACTAGC shows Automatic Generation Control (AGC) contract details for each dispatchable unit. There is a separate contract for each unit.
CONTRACTLOADSHED	CONTRACTLOADSHED shows Governor contract details used in the settlement and dispatch of this service. Note: services are dispatched as 6 and 60 raise Frequency Control Ancillary Services (FCAS). Mandatory requirements and breakpoint details are not used for load shed.
CONTRACTREACTIVEPOWER	CONTRACTREACTIVEPOW ER shows Reactive Power contract details used in the settlement and dispatch of this service.
CONTRACTRESTARTSERVICES	CONTRACTRESTARTSERV ICES shows Restart Services contract details used in the settlement and dispatch of this service.
CONTRACTRESTARTUNITS	CONTRACTRESTARTUNIT S shows Restart units provided under a system restart contract. A service can have multiple units.

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5.2 Diagram: Entities: Ancillary Services

CONTRACTREACTIVEPOWER

CONTRACTID VERSIONNO

CONTRACTLOADSHED

CONTRACTID VERSIONNO

CONTRACTAGC

CONTRACTID VERSIONNO

CONTRACTRESTARTSERVICES CONTRACTID VERSIONNO CONTRACTID VERSIONNO DUID CONTRACTID VERSIONNO DUID

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6 Package: ASOFFER

Name ASOFFER

Comment Offer data for Ancillary Service Contracts

6.1 List of tables

Name	Comment
OFFERAGCDATA	OFFERAGCDATA shows availability reoffers of Automatic Generation Control.
OFFERASTRK	OFFERASTRK tracks successfully acknowledged ancillary service reoffers.
OFFERLSHEDDATA	OFFERLSHEDDATA shows reoffers of load shed including available load shed quantity.
OFFERRESTARTDATA	OFFERRESTARTDATA sets out reoffers of system restart availability.
OFFERRPOWERDATA	OFFERRPOWERDATA shows reoffers of reactive power capability and settlement measurements.

6.2 Diagram: Entities: Ancillary Service Contracts

OFFERASTRK

EFFECTIVEDATE VERSIONNO PARTICIPANTID

OFFERRPOWERDATA

CONTRACTID EFFECTIVEDATE VERSIONNO PERIODID

OFFERRESTARTDATA

CONTRACTID OFFERDATE VERSIONNO PERIODID

OFFERLSHEDDATA

CONTRACTID EFFECTIVEDATE VERSIONNO PERIODID

OFFERAGCDATA

CONTRACTID EFFECTIVEDATE VERSIONNO PERIODID

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7 Package: BIDS

Name BIDS

Comment Energy and Market Based FCAS Offers

7.1 List of tables

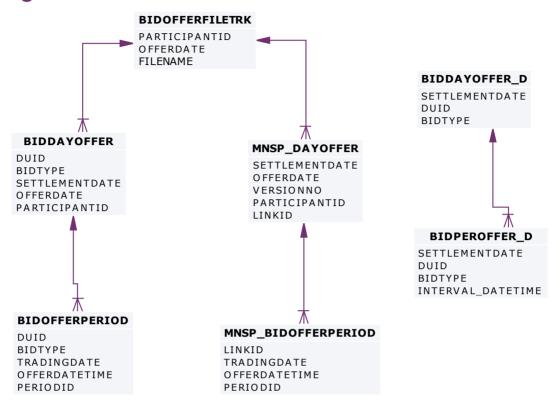
Name	Comment
BIDDAYOFFER	BIDDAYOFFER shows the Energy and Ancillary Service bid data for each Market Day. BIDDAYOFFER is the parent table to BIDOFFERPERIOD. BIDDAYOFFER is a child table to BIDOFFERFILETRK
BIDDAYOFFER_D	BIDDAYOFFER_D shows the public summary of the energy and FCAS offers applicable in the Dispatch for the intervals identified. BIDDAYOFFER_D is the parent table to BIDPEROFFER_D.
BIDOFFERFILETRK	BIDOFFERFILETRK shows an audit trail of all files submitted containing ENERGY/FCAS/MNSP bid, including corrupt bids and rebids.
BIDOFFERPERIOD	BIDOFFERPERIOD shows 5-minute period-based Energy and Ancillary Service bid data.BIDOFFERPERIOD is a child table of BIDDAYOFFER
BIDPEROFFER_D	BIDPEROFFER_D shows the public summary of the energy and FCAS offers applicable in the Dispatch for the

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	intervals identified. BIDPEROFFER_D is the child to BIDDAYOFFER_D.
MNSP_BIDOFFERPERIOD	MNSP_BIDOFFERPERIOD shows availability for 5-minute periods for a specific Bid and LinkID for the given Trading Date and period. MNSP_BIDOFFERPERIOD is a child to MNSP_DAYOFFER and links to BIDOFFERFILETRK for 5MS Bids.
MNSP_DAYOFFER	MNSP_DAYOFFER updates as bids are processed. All bids are available as part of next day market data. MNSP_DAYOFFER is the parent table to MNSP_BIDOFFERPERIOD, and joins to BIDOFFERFILETRK for 5MS Bids.
MTPASA_OFFERDATA	Participant submitted Offers for MTPASA process
MTPASA_OFFERFILETRK	Participant submitted Offers for MTPASA process

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7.2 Diagram: Entities: Bids



MTPASA_OFFERFILETRK

PARTICIPANTID OFFERDATETIME

MTPASA_OFFERDATA

PARTICIPANTID OFFERDATETIME UNITID EFFECTIVEDATE

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8 Package: BILLING_CONFIG

Name BILLING_CONFIG

Comment Configuration data for the Billing Process

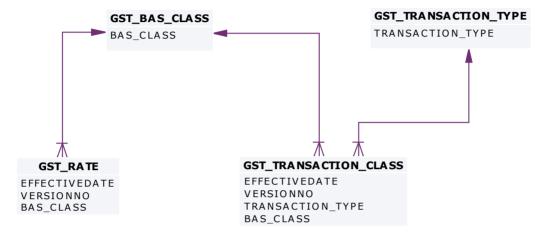
8.1 List of tables

Name	Comment
BILLINGCALENDAR	BILLINGCALENDAR sets out the billing calendar for the year, with week number 1 starting on 1 January. BILLINGCALENDAR advises preliminary and final statement posting date and corresponding settlement for each billing week.
GST_BAS_CLASS	GST_BAS_CLASS contains a static list of BAS (Business Activity Statement) classifications supported by the MMS.
GST_RATE	GST_RATE maintains the GST rates on a BAS (Business Activity Statement) class basis.
GST_TRANSACTION_CLASS	GST_TRANSACTION_CLAS S maps NEM settlement transaction types with BAS (Business Activity Statement) classifications.
GST_TRANSACTION_TYPE	GST_TRANSACTION_TYPE shows a static list of transaction types supported by the MMS.
SECDEPOSIT_INTEREST_RATE	The security deposit interest rate on a daily basis. This is the public table published when the business enter and authorise a new daily interest rate

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SECDEPOSIT_PROVISION	The security deposit provision entry details
	provision only detaile

8.2 Diagram: Entities: Billing Config



SECDEPOSIT_INTEREST_RATE

INTEREST_ACCT_ID EFFECTIVEDATE VERSION_DATETIME

SECDEPOSIT_PROVISION

SECURITY_DEPOSIT_ID PARTICIPANTID

BILLINGCALENDAR

CONTRACTYEAR WEEKNO

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9 Package: BILLING_RUN

Name BILLING_RUN

Comment Results from a published Billing Run. The settlement data and billing run

data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL

and two REVISION runs in addition to the daily runs.

Each billing run is uniquely identified by contract year, week no and bill run

no.

9.1 List of tables

Name	Comment
BILLING_APC_COMPENSATION	Billing result table for APC compensation payments.
BILLING_APC_RECOVERY	Billing result table for recovery of APC compensation payments
BILLING_CO2E_PUBLICATION	Carbon Dioxide Intensity Index publication table
BILLING_CO2E_PUBLICATION_TRK	Carbon Dioxide Intensity Index publication tracking table
BILLING_DAILY_ENERGY_SUMMARY	Billing result table containing daily summary data for customer and generator energy amounts
BILLING_DIR_FINAL_AMOUNT	The Billing Final Directions Payment Amount for Directed/Affected/Eligible participants
BILLING_DIR_FINAL_RECOVERY	The Billing Final Directions Recovery Amount for the participants
BILLING_DIR_PROV_AMOUNT	The Billing Provisional Directions Payment Amount for Directed/Affected/Eligible participants

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BILLING_DIR_PROV_RECOVERY	The Billing Provisional Directions Recovery Amount for the participants
BILLING_DIR_RECOVERY_DETAIL	The Billing Directions Recovery Details for the participants
BILLING_DIRECTION_RECON_OTHER	Billing reconciliation result table for both provisional and final directions
BILLING_DIRECTION_RECONCILIATN	Billing reconciliation result table for both provisional and final directions using the FPP methodology (prior to 1st July 2011)
BILLING_EFTSHORTFALL_AMOUNT	The billing shortfall run amounts
BILLING_EFTSHORTFALL_DETAIL	The Billing Shortfall Run Amount details
BILLING_ENERGY_TRAN_SAPS	The SAP Billing Transaction Details for the Participants
BILLING_GST_DETAIL	BILLING_GST_DETAIL shows the BAS class, GST_Exclusive and GST amount (if any) attributable to a participant for each transaction type.
BILLING_GST_SUMMARY	BILLING_GST_SUMMARY shows the GST_Exclusive and GST amount (if any) attributable to a participant for each BAS class.
BILLING_NMAS_TST_PAYMENTS	BILLING_NMAS_TEST_PAY MENTS publish the NSCAS/SRAS Testing Payments data for a posted billing week.
BILLING_NMAS_TST_RECOVERY	BILLING_NMAS_TEST_RE COVERY sets out the recovery of NMAS testing payments
BILLING_NMAS_TST_RECVRY_RBF	BILLING_NMAS_TEST_RE CVRY_RBF sets out the NSCAS/SRAS Testing

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	Payment recovery data for the posted billing week.
BILLING_NMAS_TST_RECVRY_TRK	BILLING_NMAS_TEST_RE CVRY_TRK tracks the energy data used to allocate the test payment recovery over the recovery period.
BILLING_SECDEP_INTEREST_PAY	The interest amount for security deposit calculated by billing, based on whether it is a fixed/floating rate
BILLING_SECDEP_INTEREST_RATE	The DAILY interest rates used by billing when calculating the interest amount
BILLING_SECDEPOSIT_APPLICATION	The security deposit application details
BILLING_SUBST_DEMAND	Demand Values Substituted in Billing Calculation
BILLING_SUBST_RUN_VERSION	Details of settlement runs used as input in the substitute demand calculation
BILLING_WDR	Billing WDR Transaction Weekly Summary
BILLING_WDR_DETAIL	Billing WDR transaction detail summary
BILLINGAPCCOMPENSATION	BILLINGAPCCOMPENSATI ON shows Administered Price Cap (APC) compensation amounts for the billing period. Data is for each participant by region.
BILLINGAPCRECOVERY	BILLINGAPCRECOVERY shows the Administered Price Cap (APC) Recovery for the billing period. Data is for each participant by region.
BILLINGASPAYMENTS	BILLINGASPAYMENTS shows Ancillary Service payments for each billing period by each of the Ancillary Service types for

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	each participant's connection points.
BILLINGASRECOVERY	BILLINGASRECOVERY shows participant charges for Ancillary Services for the billing period. This view shows the billing amounts for Ancillary Service Recovery.
BILLINGCPDATA	BILLINGCPDATA shows energy quantity and \$ value purchased per participant connection point.
BILLINGDAYTRK	BILLINGDAYTRK is key for matching settlement versions with billing runs. BILLINGDAYTRK displays the billrunnos per billing week, and the settlement version numbers per settlement day comprising the billrunno.
BILLINGFEES	BILLINGFEES presents pool fees applied to the statement, per billing run.
BILLINGFINANCIALADJUSTMENTS	BILLINGFINANCIALADJUST MENTS contains any manual adjustments included in the billing run.
BILLINGGENDATA	BILLINGGENDATA shows the total energy sold and purchased per participant transmission connection point for a billing period.
BILLINGINTERRESIDUES	BILLINGINTERRESIDUES shows interregion residues payable to NSP.
BILLINGINTRARESIDUES	BILLINGINTRARESIDUES shows intra-region settlement residue details for each Transmission Network Service Provider participant by region.
BILLINGIRAUCSURPLUS	BILLINGIRAUCSURPLUS supports the Settlements Residue Auction, by showing the weekly billing

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	Interconnector Residue (IR) payments as calculated for each bill run for Network Service Providers (NSPs) from the amount not auctioned.
BILLINGIRAUCSURPLUSSUM	BILLINGIRAUCSURPLUSS UM contains Auction fees and Settlements Residue Auction distribution that may arise from unpurchased auction units that accrue to Transmission Network Service Providers.
BILLINGIRFM	BILLINGIRFM shows billing amounts associated with Industrial Relations Forced Majeure events for each participant.
BILLINGIRNSPSURPLUS	BILLINGIRNSPSURPLUS supports the Settlements Residue Auction (SRA), by showing the weekly billing Interconnector Residue (IR) payments as calculated for each bill run for Transmission Network Service Providers (TNSP) from the amount paid by participants (i.e. derogated amounts).
BILLINGIRNSPSURPLUSSUM	BILLINGIRNSPSURPLUSSU M contains derogated payments made to TNSPs arising from the Settlements Residue Auction process.
BILLINGIRPARTSURPLUS	BILLINGIRPARTSURPLUS supports the Settlements Residue Auction, by showing the weekly billing SRA distribution to Auction participants by Contract Identifier.
BILLINGIRPARTSURPLUSSUM	BILLINGIRPARTSURPLUSS UM supports the Settlements Residue Auction, by showing the weekly billing SRA distribution and associated fees to Auction participants.

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BILLINGPRIORADJUSTMENTS	BILLINGPRIORADJUSTME
	NTS sets out prior period adjustments and associated interest inserted in subsequent Final Statements arising from Revision Statement postings.
BILLINGREALLOC	BILLINGREALLOC shows reallocation contract values in each billing run, where participants have used reallocations.
BILLINGREALLOC_DETAIL	Billing Reallocation Data aggregated by REALLOCATIONID for each billing run over the billing week.
BILLINGREGIONEXPORTS	BILLINGREGIONEXPORTS sets out the region summary table of overall energy exported to and from each region for each billing run.
BILLINGREGIONFIGURES	BILLINGREGIONFIGURES sets out additional summary region details including ancillary service amounts for each billing run.
BILLINGREGIONIMPORTS	BILLINGREGIONIMPORTS sets out the region summary table of overall energy imported to and from each region for each billing run.
BILLINGRUNTRK	BILLINGRUNTRK identifies the Statement type (i.e. Status of PRELIM, FINAL, REVISE) and date of the BillRunNo posted, per WeekNo. This provides a further extension of tracking data from the BILLINGDAYTRK table.
BILLRESERVETRADERPAYMENT	Details of the RERT Usage and Availability Payments made to the participant.
BILLRESERVETRADERRECOVERY	Provides details of the RERT Recovery Amount for the

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	Market Customers.
BILLWHITEHOLE	BILLWHITEHOLE shows white hole payments based on participant vs region demand.

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9.2 Diagram: Entities: Billing Run



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10 Package: DEMAND_FORECASTS

Name DEMAND_FORECASTS

Comment Regional Demand Forecasts and Intermittent Generation forecasts.

10.1 List of tables

Name	Comment
DEMANDOPERATIONALACTUAL	Shows Actual Operational Demand for a particular date time interval.
DEMANDOPERATIONALFORECAST	Shows Forecast Operational Demand for a particular date time interval.
INTERMITTENT_CLUSTER_AVAIL	A submission of expected plant availability for an intermittent generating unit cluster, by Trading Day and Trading Interval.
INTERMITTENT_CLUSTER_AVAIL_DAY	Summary record for an availability submission for an intermittent generating unit cluster for a Trading Day.
INTERMITTENT_DS_PRED	Unconstrained Intermittent Generation Forecasts (UIGF) for Dispatch
INTERMITTENT_DS_RUN	Unconstrained Intermittent Generation Forecasts (UIGF) for Dispatch.
INTERMITTENT_GEN_FCST	Identifying record for a given forecast of an intermittent generation. This table is the version table for the INTERMITTENT_GEN_FCS T_DATA table which stores the individual forecast values
INTERMITTENT_GEN_FCST_DATA	Stores the forecast generation (MW) for each interval within a given forecast of an intermittent

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	generator.
INTERMITTENT_GEN_LIMIT	A submission of Upper MW Limit for an intermittent generating unit, by Trading Day and Trading Interval
INTERMITTENT_GEN_LIMIT_DAY	Summary record for an Upper MW Limit submission for an intermittent generating unit for a Trading Day
INTERMITTENT_GEN_SCADA	INTERMITTENT_GEN_SCA DA provides the SCADA Availability for every intermittent generating unit, including Elements Available (wind turbines/solar inverters) and Local Limit
INTERMITTENT_P5_PRED	Unconstrained Intermittent Generation Forecasts (UIGF) for 5-Minute Pre-dispatch
INTERMITTENT_P5_RUN	Unconstrained Intermittent Generation Forecasts (UIGF) for 5-Minute Pre-dispatch
MTPASA_INTERMITTENT_AVAIL	A submission of expected plant availability for intermittent generators for use in MTPASA intermittent generation forecasts
MTPASA_INTERMITTENT_LIMIT	A submission of expected maximum availability for intermittent generators for use in MTPASA intermittent generation forecasts
PERDEMAND	PERDEMAND sets out the regional demands and MR schedule data for each half-hour period. PERDEMAND is a child table to RESDEMANDTRK.
RESDEMANDTRK	RESDEMANDTRK defines the existence and versioning information of a forecast for a specific region and trading date. RESDEMANDTRK and

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	PERDEMAND have a parent/child relationship, and are for defined forecast regional demands since market start. RESDEMANDTRK defines the existence and versioning information of a forecast for a specific region and trading date. PERDEMAND defines the numerical forecast values for each trading interval of a the trading day for that region. A complete trading day forecast for one region consists of one RESDEMANDTRK record and 48 PERDEMAND records.
ROOFTOP_PV_ACTUAL	Estimate of regional Rooftop Solar actual generation for each half-hour interval in a day
ROOFTOP_PV_FORECAST	Regional forecasts of Rooftop Solar generation across the half-hour intervals over 8 days

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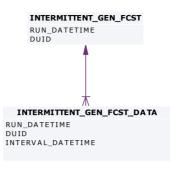
10.2 Diagram: Entities: Demand Forecasts

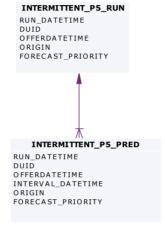






ROOFTOP_PV_ACTUAL INTERVAL_DATETIME TYPE REGIONID







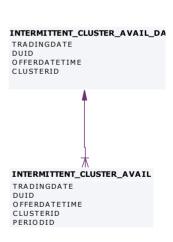




DUID

PERIODID

OFFERDATETIME



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11 Package: DISPATCH

Name DISPATCH

Comment Results from a published Dispatch Run

11.1 List of tables

Name	Comment
CONSTRAINTRELAXATION_OCD	CONSTRAINTRELAXATION _OCD contains details of interconnector constraints and unit ancillary service constraints relaxed in the over-constrained dispatch (OCD) re-run for this interval (if there was one).
	Note: INTERVENTION is not included in CONSTRAINTRELAXATION _OCD, since the relaxation of the same constraint is the same amount in both intervened and non-intervened cases.
DISPATCH_CONSTRAINT_FCAS_OCD	FCAS constraint solution from OCD re-run.
DISPATCH_FCAS_REQ	DISPATCH_FCAS_REQ shows Dispatch Constraint tracking for Regional FCAS recovery.
DISPATCH_INTERCONNECTION	Inter-regional flow information common to or aggregated for regulated (i.e. not MNSP) Interconnectors spanning the From-Region and To-Region - NB only the physical run is calculated'
DISPATCH_LOCAL_PRICE	Sets out local pricing offsets associated with each DUID connection point for each dispatch period. Note that from 2014 Mid year release

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	only records with non-zero Local_Price_Adjustment values are issued
DISPATCH_MNSPBIDTRK	DISPATCH_MNSPBIDTRK shows the MNSP bid tracking, including the bid version used in each dispatch run for each MNSP Interconnector Link. The table identifies which bids from MNSP_DAYOFFER and MNSP_BIDOFFERPERIOD were applied.
DISPATCH_MR_SCHEDULE_TRK	DISPATCH_MR_SCHEDUL E_TRK records the Mandatory Restrictions Acceptance Schedule applied to this dispatch interval for this region.
	DISPATCH_MR_SCHEDUL E_TRK is populated by the Dispatch process and records the MR Offer Stack applied in each dispatch interval. DISPATCH_MR_SCHEDUL E_TRK is used by Settlements to calculate payments according to the correct MR offer stack.
DISPATCH_PRICE_REVISION	An audit trail of price changes on the DISPATCHPRICE table (i.e. for 5 minute dispatch prices for energy and FCAS).
DISPATCH_UNIT_CONFORMANCE	DISPATCH_UNIT_CONFOR MANCE details the conformance of a scheduled units operation with respect to a cleared target on dispatch interval basis. Data is confidential
DISPATCH_UNIT_SCADA	Dispatchable unit MW from SCADA at the start of the dispatch interval. The table includes all scheduled and semi-scheduled (and non-scheduled units where

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	SCADA is available)
DISPATCHBLOCKEDCONSTRAINT	DISPATCH Blocked Constraints lists any constraints that were blocked in a dispatch run. If no constraints are blocked, there will be no rows for that dispatch run.
DISPATCHCASESOLUTION	DISPATCHCASESOLUTION shows information relating to the complete dispatch run. The fields in DISPATCHCASESOLUTION provide an overview of the dispatch run results allowing immediate identification of conditions such as energy or FCAS deficiencies.
DISPATCHCONSTRAINT	DISPATCHCONSTRAINT sets out details of all binding and interregion constraints in each dispatch run. Note: invoked constraints can be established from GENCONSETINVOKE. Binding constraints show as marginal value >\$0. Interconnector constraints are listed so RHS (SCADA calculated limits) can be reported.
DISPATCHINTERCONNECTORRES	DISPATCHINTERCONNECT ORRES sets out MW flow and losses on each interconnector for each dispatch period, including fields for the Frequency Controlled Ancillary Services export and import limits and extra reporting of the generic constraints set the energy import and export limits.
DISPATCHLOAD	DISPATCHLOAD set out the current SCADA MW and target MW for each dispatchable unit, including relevant Frequency Control Ancillary Services (FCAS) enabling targets for each five minutes and additional fields

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	to handle the new Ancillary Services functionality. Fast Start Plant status is indicated by dispatch mode.
DISPATCHOFFERTRK	DISPATCHOFFERTRK is the energy and ancillary service bid tracking table for the Dispatch process. The table identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and bid type for each dispatch interval.
DISPATCHPRICE	DISPATCHPRICE records 5 minute dispatch prices for energy and FCAS, including whether an intervention has occurred, or price override (e.g. for Administered Price Cap). DISPATCHPRICE updates when price adjustments occur, in which case the new price is written to the RRP field, and the old price to the ROP field as an audit trail.
DISPATCHREGIONSUM	DISPATCHREGIONSUM sets out the 5-minute solution for each dispatch run for each region, including the Frequency Control Ancillary Services (FCAS) services provided. Additional fields are for the Raise Regulation and Lower Regulation Ancillary Services plus improvements to demand calculations.
INTERMITTENT_FORECAST_TRK	Uniquely tracks which Intermittent Generation forecast was used for the DUID in which Dispatch run
NEGATIVE_RESIDUE	Shows the inputs provided to the Negative Residue Constraints in the Dispatch horizon

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11.2 Diagram: Entities: Dispatch

DISPATCH CONSTRAINT FCAS OCD

SETTLEMENTDATE RUNNO INTERVENTION CONSTRAINTID VERSIONNO

DISPATCHOFFERTRK

SETTLEMENTDATE BIDTYPE

DISPATCH_MR_SCHEDULE_TRK

SETTLEMENTDATE REGIONID

INTERMITTENT FORECAST TRK

SETTLEMENTDATE DIIID

NEGATIVE_RESIDUE

SETTLEMENTDATE DIRECTIONAL_INTERCONNECTORID

DISPATCH_UNIT_SCADA

SETTLEMENTDATE DUID

CONSTRAINTRELAXATION OCD

SETTLEMENTDATE CONSTRAINTID VERSIONNO

DISPATCHBLOCKEDCONSTRAINT

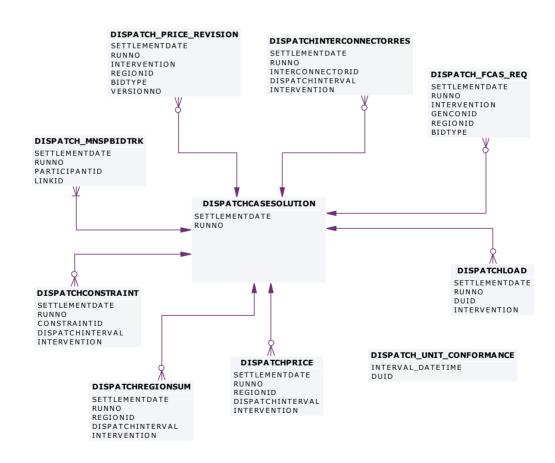
SETTLEMENTDATE RUNNO CONSTRAINTID

DISPATCH_LOCAL_PRICE

SETTLEMENTDATE

DISPATCH_INTERCONNECTION

SETTLEMENTDATE RUNNO INTERVENTION FROM_REGIONID TO REGIONID



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12 Package: FORCE_MAJEURE

Name FORCE_MAJEURE

Comment Market Suspensions and administer pricing event data

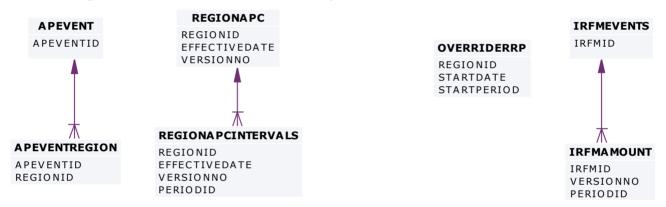
12.1 List of tables

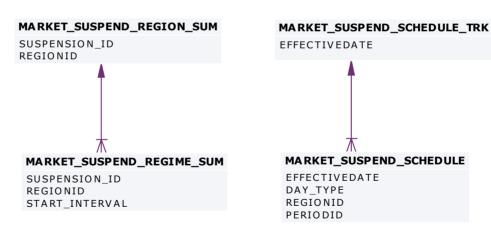
Name	Comment
APEVENT	APEVENT is the driving data defining the existence and timeframes of an administered pricing event.
APEVENTREGION	APEVENTREGION is the Region detail for an administered pricing event defined through APEVENT.
IRFMAMOUNT	IRFMAMOUNT sets out settlement amounts associated with Industrial Relations Forced Majeure events.
IRFMEVENTS	IRFMEVENTS sets out specific Industrial Relations Forced Majeure events.
MARKET_SUSPEND_REGIME_SUM	Tracks the evolution of pricing regimes applied to the suspended region and from which Dispatch Interval
MARKET_SUSPEND_REGION_SUM	Summary of Market Suspension timings
MARKET_SUSPEND_SCHEDULE	Trading prices that will apply in the event of a market suspension event updated weekly.
MARKET_SUSPEND_SCHEDULE_TRK	Parent table for pricing regimes used in suspensions
OVERRIDERRP	OVERRIDERRP shows details of override price

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	periods.
REGIONAPC	REGIONAPC defines Administered Price profiles (Energy and FCAS) for a region.
REGIONAPCINTERVALS	REGIONAPCINTERVALS contains Administered Price profiles (Energy and FCAS) applicable to each interval for a region.

12.2 Diagram: Entities: Force Majeure





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13 Package: GD_INSTRUCT

Name GD_INSTRUCT

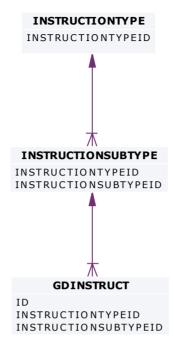
Comment General Dispatch Instruction data

13.1 List of tables

Name	Comment
GDINSTRUCT	GDINSTRUCT shows all manually issued dispatch instructions for a dispatchable unit. Ancillary Service instructions are to enable and to disable (i.e. 2 separate instructions) a service. Non-conforming units are also instructed via this facility. However, this facility is not the same as the market notice.
INSTRUCTIONSUBTYPE	Each Dispatch instruction (GD instruct) has a type and subtype. INSTRUCTIONSUBTYPE, together with INSTRUCTIONTYPE, sets out valid instruction types.
INSTRUCTIONTYPE	Dispatch instruction (GD instruct) has types and subtypes. INSTRUCTIONTYPE, together with INSTRUCTIONSUBTYPE, sets out valid instruction types.

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13.2 Diagram: Entities: GD Instruct



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14 Package: GENERIC_CONSTRAINT

Name GENERIC_CONSTRAINT

Comment Generic Constraint Standing Data and Invocations

14.1 List of tables

Name	Comment
EMSMASTER	EMSMASTER provides a description of the SCADA measurements that are associated with the SPD_ID points utilised in generic equation RHS terms
GENCONDATA	GENCONDATA sets out the generic constraints contained within a generic constraint set invoked in PASA, predispatch and dispatch.
	Fields enable selective application of invoked constraints in the Dispatch, Predispatch, ST PASA or MT PASA processes.
GENCONSET	GENCONSET sets out generic constraint sets that are invoked and revoked, and may contain many generic constraints (GENCONDATA).
GENCONSETINVOKE	GENCONSETINVOKE provides details of invoked and revoked generic constraints. GENCONSETINVOKE is the key table for determining what constraints are active in dispatch, predispatch and PASA.
	GENCONSETINVOKE also indicates whether constraints are for interconnector limits,

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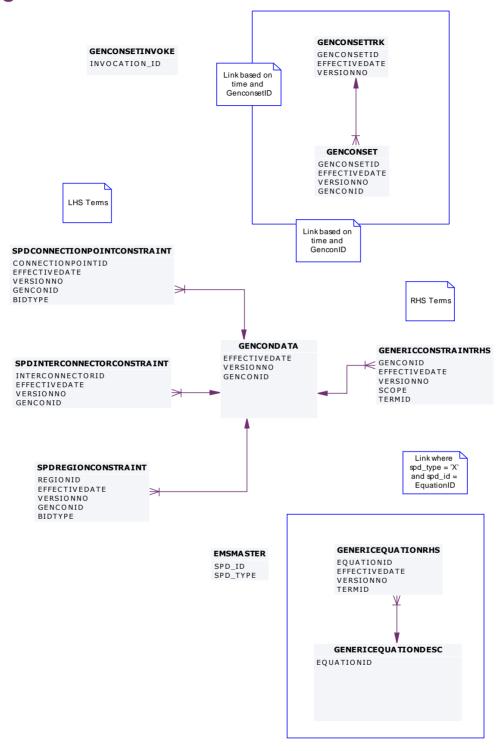
	ancillary services, etc.
GENCONSETTRK	GENCONSETTRK assists in determining the correct version of a generic constraint set that has been invoked in GENCONSETINVOKE.
GENERICCONSTRAINTRHS	GENERICCONSTRAINTRH S sets out details of generic constraint Right Hand Side (RHS) formulations for dispatch (DS), predispatch (PD) and Short Term PASA (ST). GENERICCONSTRAINTRH S also includes general expressions (EQ) used in the dispatch, predispatch and PASA time frames.
	GENERICCONSTRAINTRH S replaces data previously available via the "Constraint Library" Excel spreadsheet.
GENERICEQUATIONDESC	GENERICEQUATIONDESC defines a generic equation identifier with a description. The formulation of the generic equation is detailed in GENERICEQUATIONRHS.
GENERICEQUATIONRHS	GENERICEQUATIONRHS stores the formulation of commonly used Generic Constraint Right Hand Side Equations referenced from Generic Constraint Right Hand Side definitions stored in GENERICCONSTRAINTRH S. The Generic Equation definitions are versioned and the latest effective version is applied to the dispatch process.
SPDCONNECTIONPOINTCONSTRAINT	SPDCONNECTIONPOINTC ONSTRAINT sets out details of connections point constraints issued in dispatch, predispatch and

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	STPASA.
SPDINTERCONNECTORCONSTRAINT	SPDINTERCONNECTORCO NSTRAINT contains details on the interconnector constraint factors used in dispatch, predispatch and STPASA. The details set a LHS value.
SPDREGIONCONSTRAINT	SPDREGIONCONSTRAINT contains details on region demand constraint factors used in dispatch. SPDREGIONCONSTRAINTs ets a LHS value.

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14.2 Diagram: Entities: Generic Constraints



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15 Package: IRAUCTION

Name IRAUCTION

Comment Inter-regional Residue Auction data

15.1 List of tables

Name	Comment
AUCTION	AUCTION holds auction details. AUCTION is new in March 2003 to support SRA Inter-Temporal Linking.
AUCTION_CALENDAR	AUCTION_CALENDAR holds the definitions of each auction quarter in a contract year. AUCTION_CALENDAR supports the Settlement Residue Auction.
AUCTION_IC_ALLOCATIONS	AUCTION_IC_ALLOCATION S supports the Settlement Residue Auction by providing the basis for setting up contracts for individual tranches. AUCTION_IC_ALLOCATION S shows the default definitions for the total number of units and proportion applicable to each directional interconnector for a specified auction quarter.
AUCTION_REVENUE_ESTIMATE	AUCTION_REVENUE_ESTI MATE supports the Settlement Residue Auction, by holding the evaluator's estimates of revenue for each month of a given quarter.
	Since reserve prices are no longer applicable from the end of 2001, zero is used as a default to avoid rewriting the system.

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AUCTION_REVENUE_TRACK	AUCTION_REVENUE_TRA CK supports the Settlement Residue Auction, by holding the tracking information for each evaluator's estimates for a given quarter. The status field is dynamic and is used for selection of estimates to be published.
AUCTION_RP_ESTIMATE	AUCTION_RP_ESTIMATE supports the Settlement Residue Auction, by holding the evaluator's estimates of revenue prices for a given quarter.
	Since reserve prices are no longer applicable from the end of 2001, zero is used as a default to avoid rewriting the system.
AUCTION_TRANCHE	AUCTION_TRANCHE supports the Settlement Residue Auction, by holding the default definitions for the percentage number of units allocated and dates applicable to each tranche for a specified auction quarter. This information provides the basis for setting up contracts for individual tranches.
RESIDUE_BID_TRK	RESIDUE_BID_TRK supports the Settlement Residue Auction, by detailing which bid was used for which SRA Contract run.
RESIDUE_CON_DATA	RESIDUE_CON_DATA supports the Settlement Residue Auction, by holding for each participant the confidential data from the auction. RESIDUE_CON_DATA joins to RESIDUE_PUBLIC_DATA and RESIDUE_TRK.
RESIDUE_CON_ESTIMATES_TRK	RESIDUE_CON_ESTIMATE S_TRK supports the Settlement Residue Auction,

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	by holding the tracking details of the estimates used to generate the reserve price for each contract.
RESIDUE_CON_FUNDS	RESIDUE_CON_FUNDS supports the Settlement Residue Auction, by holding the fund details for each contract.
RESIDUE_CONTRACTS	RESIDUE_CONTRACTS supports the Settlement Residue Auction, by holding the contract details for each period for which a residue contract will be offered.
RESIDUE_FUNDS_BID	RESIDUE_FUNDS_BID supports the Settlement Residue Auction, by showing the fund details for each SRA bid by each Participant.
RESIDUE_PRICE_BID	RESIDUE_PRICE_BID supports the Settlement Residue Auction, holding the unit and bid price details for each participant.
RESIDUE_PRICE_FUNDS_BID	RESIDUE_PRICE_FUNDS_ BIDshows the bids producing the auction outcome, without exposing participant-specific details. RESIDUE_PRICE_FUNDS_ BID is new in March 2003 to support SRA Inter-Temporal Linking.
RESIDUE_PUBLIC_DATA	RESIDUE_PUBLIC_DATA shows the public auction results.
	RESIDUE_PUBLIC_DATA supports the Settlement Residue Auction, by holding the public details of the auction for a given contract. RESIDUE_PUBLIC_DATA joins to RESIDUE_CON_DATA and RESIDUE.
RESIDUE_TRK	RESIDUE_TRK supports the

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	Settlement Residue Auction, by showing the tracking records for different residue auction runs. RESIDUE_TRK joins to RESIDUE_PUBLIC_DATA and RESIDUE_CON_DATA.
RESIDUECONTRACTPAYMENTS	RESIDUECONTRACTPAYM ENTS shows Settlement Residue Auction payment Participant notifications.
RESIDUEFILETRK	RESIDUEFILETRK records all Settlement Residue Auction offers submitted by participants.
SRA_CASH_SECURITY	Records the Cash Security details provided by an SRA Auction Participant as collateral to cover their Trading Position in the SRA market
SRA_FINANCIAL_AUC_MARDETAIL	This table stores details of the margins returned to the participants.
SRA_FINANCIAL_AUC_MARGIN	Records the amount of Cash Security required to be held by an Auction Participant after settlement
SRA_FINANCIAL_AUC_RECEIPTS	Records details of the Cancelled Units and their value for the Auction Participant
SRA_FINANCIAL_AUCPAY_DETAIL	Records details of the SRA financial auction payment
SRA_FINANCIAL_AUCPAY_SUM	Records a summary of the Auction payment amount
SRA_FINANCIAL_RUNTRK	Records details of the settlement process for the cancellation and purchase of SRA Auction Units
SRA_OFFER_PRODUCT	Holds the Product details for each Offer File submitted by each SRA Auction Participant.

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SRA_OFFER_PROFILE	Holds the data of an SRA Auction Participant Offer Submission.
SRA_PRUDENTIAL_CASH_SECURITY	Records the Cash Security details provided by an SRA Auction Participant as collateral to cover their Trading Position in the SRA market
SRA_PRUDENTIAL_COMP_POSITION	The prudential position of each company at the date and time of a specific prudential run
SRA_PRUDENTIAL_EXPOSURE	Records details of the Prudential Exposure of an SRA Auction Participant
SRA_PRUDENTIAL_RUN	Records the prudential run details for each prudential date
VALUATIONID	VALUATIONID shows the identifiers and descriptions of the valuers submitting estimates of upcoming settlement residues. VALUATIONID supports the Settlement Residue Auction.

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15.2 Diagram: Entities: IRAuction

RESIDUEFILETRK

RESIDUE_CON_FUNDS

CONTRACTID INTERCONNECTORID FROMREGIONID

RESIDUE_CON_DATA

CONTRACTID VERSIONNO PARTICIPANTID INTERCONNECTORID FROMREGIONID

RESIDUECONTRA CTPA Y MENTS

AUCTION_REVENUE_TRACK

CONTRACTYEAR QUARTER VALUATIONID VERSIONNO

RESIDUE_CON_ESTIMATES_TRK

CONTRACTID CONTRACTYEAR QUARTER VALUATIONID

CONTRACTYEAR QUARTER VERSIONNO TRANCHE

RESIDUE_PRICE_FUNDS_BID

CONTRACTID INTERCONNECTORID FROMREGIONID LINKEDBIDFLAG AUCTIONID

AUCTIONID

RESIDUE_PUBLIC_DATA

CONTRACTID VERSIONNO INTERCONNECTORID FROMREGIONID

RESIDUE_PRICE_BID

PARTICIPANTID LOADDATE OPTIONID AUCTIONID

AUCTION CALENDAR CONTRACTYEAR QUARTER

RESIDUE_CONTRACTS

CONTRACTYEAR QUARTER TRANCHE

RESIDUE_TRK

AUCTION RP ESTIMATE

AUCTION_RP_ESTIMA
CONTRACTYEAR
QUARTER
VALUATIONID
VERSIONNO
INTERCONNECTORID
FROMREGIONID

VALUATIONID

VALUATIONID

RESIDUE BID TRK VERSIONNO PARTICIPANTID AUCTIONID

AUCTION_IC_ALLOCATIONS CONTRACTYEAR QUARTER VERSIONNO INTERCONNECTORID FROMREGIONID

RESIDUE FUNDS BID

CONTRACTID PARTICIPANTID LOADDATE OPTIONID INTERCONNECTORID FROMREGIONID AUCTION_REVENUE_ESTIMATE

AUCTION_REVENUE_I
CONTRACTYEAR
QUARTER
VALUATIONID
VERSIONNO
INTERCONNECTORID
FROMREGIONID
MONTHNO

SRA_FINANCIAL_RUNTRK

SRA_YEAR SRA_QUARTER SRA_RUNNO

SRA_FINANCIAL_AUC_RECEIPTS

SRA_YEAR SRA_QUARTER SRA_RUNNO PARTICIPANTID INTERCONNECTORID FROMREGIONID CONTRACTID SRA_OFFER_PRODUCT

AUCTIONID PARTICIPANTID LOADDATE OPTIONID

SRA_PRUDENTIAL_RUN SRA_PRUDENTIAL_EXPOSURE SRA_PRUDENTIAL_TOWN
PRUDENTIAL_DATE
PRUDENTIAL_TOWN
PRUDENTIAL_TOWN
PRUDENTIAL_TOWN
PRATICIPANTIO
SRA_YEAR
SRA_PRUDENTIAL_COMP_POSITIC
FRUDENTIAL_DATE
PRUDENTIAL_DATE
FRUDENTIAL_TWEND
FRUDENTIAL_TWEND

SRA_OFFER_PROFILE

AUCTIONID PARTICIPANTID LOADDATE

PRUDENTIAL_DATE
PRUDENTIAL_RUNNO
PARTICIPANTID

PRUDENTIAL_DATE
PRUDENTIAL_RUNNO
PARTICIPANTID
CASH_SECURITY_ID

SRA_PRUDENTIAL_CASH_SECURITY

SRA_FINANCIAL_AUC_MARGII SRA_FINANCIAL_AUC_MARDETAIL
SRA_YEAR
SRA_QUANTER
SRA_QUANTER
SRA_QUANTER
SRA_RUNNO
PARTICIPANTID
CASH_SECURITY_ID

SRA_CASH_SECURITY

 ${\tt SRA_FINANCIAL_AUCPAY_SL\ SRA_FINANCIAL_AUCPAY_DETAIL}$ SRA_FINANCIAL SRA_YEAR SRA_QUARTER SRA_RUNNO PARTICIPANTID

SRA_FINANCIAL_AUG
SRA_YEAR
SRA_QUARTER
SRA_RUNNO
PARTICIPANTID
INTERCONNECTORID
FROMREGIONID
CONTRACTID

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16 Package: MARKET_CONFIG

Name MARKET_CONFIG

Comment Standing data for the market

16.1 List of tables

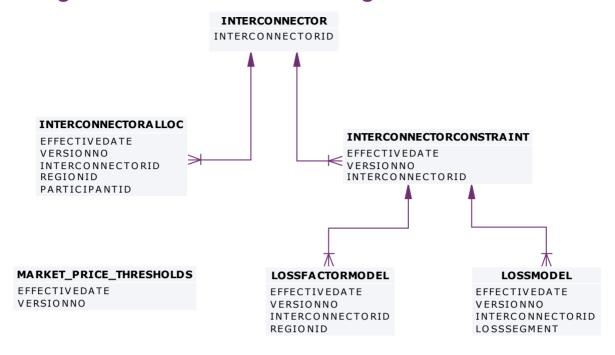
Name	Comment
BIDTYPES	BIDTYPES, together with the associated tracking data in BIDTYPESTRK, define a set of ancillary services with bidding parameters from a given date.
	BIDTYPES is static data describing each type of bid quantity, the number of applicable bands, how many days ahead a price lock down becomes effective and the validation rule that applies.
BIDTYPESTRK	BIDTYPESTRK, together with the associated data in BIDTYPES, define a set of ancillary services with bidding parameters from a given date.
INTERCONNECTOR	INTERCONNECTOR sets out valid identifiers for each interconnector.
INTERCONNECTORALLOC	INTERCONNECTORALLOC shows allocations of interconnector residues to Network Service Providers.
INTERCONNECTORCONSTRAINT	INTERCONNECTORCONST RAINT sets out Interconnector limit data used as defaults in dispatch, predispatch and STPASA and used by SPD in calculating flows.

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	INTERCONNECTORCONST RAINT includes an additional field to restrict an interconnector from support transfer of FCAS.
INTRAREGIONALLOC	INTRAREGIONALLOC shows allocations of intraregional residues to participants.
LOSSFACTORMODEL	LOSSFACTORMODEL sets out the demand coefficients for each interconnector, used by LP Solver modelling of interconnector flows.
LOSSMODEL	LOSSMODEL sets out segment breakpoints in loss model for each interconnector, used by LP Solver modelling of interconnector flows.
MARKET_PRICE_THRESHOLDS	MARKET_PRICE_THRESH OLDS sets out the market cap, floor and administered price thresholds applying to the electricity market
REGION	REGION sets out valid region IDs.
REGIONSTANDINGDATA	REGIONSTANDINGDATA sets out standing region data including the region reference node.
TRANSMISSIONLOSSFACTOR	TRANSMISSIONLOSSFACT OR shows the Transmission Loss factors applied at each connection point.

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16.2 Diagram: Entities: Market Standing Data





TRANSMISSIONLOSSFACTOR

EFFECTIVEDATE VERSIONNO CONNECTIONPOINTID

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17 Package: MARKET_NOTICE

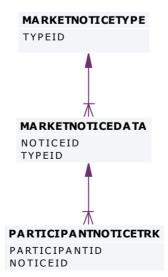
Name MARKET_NOTICE

Comment Market Notice data

17.1 List of tables

Name	Comment
MARKETNOTICEDATA	MARKETNOTICEDATA shows market notices data provided to all participants (market) and specific participants (participants (participant).
MARKETNOTICETYPE	MARKETNOTICETYPE sets out the different types of market notices (e.g. market systems).
PARTICIPANTNOTICETRK	PARTICIPANTNOTICETRK provides the cross-reference between participant market notices and participants.

17.2 Diagram: Entities: Market Notices



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18 Package: METER_DATA

Name METER_DATA

Comment Wholesale market aggregated Meter data

18.1 List of tables

Name	Comment
METERDATA_AGGREGATE_READS	Publishes aggregated metering data associated with a wholesale connection point for a given CASE_ID
METERDATA_INDIVIDUAL_READS	Publishes metering data associated with individual metering points for a given CASE_ID
METERDATA_INTERCONNECTOR	Publishes metering data associated with wholesale interconnectors for a given CASE_ID
METERDATA_SAPS	The SAPS Meter data for MSRP and Retailer used in the Settlement Calculation
METERDATA_WDR_READS	Metering Data WDR Readings

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18.2 Diagram: Entities: Meter Data

Note: Include MDA =
MeteringDataAgent in any
join

METERDATA_INDIVIDUAL_READS

CASE_ID SETTLEMENTDATE METER_ID METER_ID_SUFFIX PERIODID

METERDATA_AGGREGATE_READS

CASE_ID
SETTLEMENTDATE
CONNECTIONPOINTID
METER_TYPE
FRMP
LR
PERIODID

METERDATA_WDR_READS

MARKET_ID CASE_ID SETTLEMENTDATE METER_ID PERIODID

METERDATA_INTERCONNECTOR

CASE_ID SETTLEMENTDATE INTERCONNECTORID PERIODID

METERDATA_SAPS

CASE_ID
SETTLEMENTDATE
CONNECTIONPOINT_ID
METER_TYPE
FRMP
LR
PERIODID

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19 Package: MTPASA

Name MTPASA

Comment Results from a published Medium Term PASA Run and region-aggregate

offered PASA Availability of scheduled generators

19.1 List of tables

Name	Comment
MTPASA_CASERESULT	MTPASA solution header table
MTPASA_CONSTRAINTRESULT	Constraint results for Binding or Violating Constraints
MTPASA_CONSTRAINTSUMMARY	Constraint Summary results over aggregation periods
MTPASA_DUIDAVAILABILITY	Offered PASA Availability of the scheduled generator DUID for each day over the Medium Term PASA period. The data in this table is input data to the MT PASA process it is not part of the MTPASA solution. The availability does not reflect any energy limitations in the MT PASA offers
MTPASA_INTERCONNECTORRESULT	Interconnector results for interval of max demand per day
MTPASA_LOLPRESULT	Results for Loss of Load Probability (LOLP) run per day
MTPASA_REGIONAVAIL_TRK	The tracking table to assist in versioning of the regionaggregate offered PASA Availability data published to the MTPASA_REGIONAVAILAB ILITY table.
MTPASA_REGIONAVAILABILITY	Stores the Region-aggregate offered PASA Availability of

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	scheduled generators for each day over the Medium Term PASA period. The data in this table is an aggregate of input data to the MT PASA process it is not part of the MTPASA solution. The aggregate availability does not reflect any energy limitations in the MT PASA offers.
MTPASA_REGIONITERATION	Region results for Unserved Energy (USE)
MTPASA_REGIONRESULT	Region results for interval of max demand per day.
MTPASA_REGIONSUMMARY	Region Results summary over aggregation periods.

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19.2 Diagram: Entities: MT PASA

MTPASA_REGIONAVAIL_TRK PUBLISH_DATETIME PUBLISH_DATETIME PUBLISH_DATETIME DAY REGIONID

MTPASA_CONSTRAINTRESULT

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY CONSTRAINTID

MTPASA_INTERCONNECTORRESULT

RUN_DATETIME RUN_NO RUNTYPE DEMAND_POE_TYPE DAY INTERCONNECTORID

MTPASA_CONSTRAINTSUMMARY

RUN_DATETIME
RUN_NO
RUNTYPE
DEMAND_POE_TYPE
DAY
CONSTRAINTID
AGGREGATION_PERIOD

MTPASA_CASERESULT

RUN_DATETIME RUN_NO

MTPASA_LOLPRESULT

RUN_DATETIME RUN_NO RUNTYPE DAY REGIONID

MTPASA_REGIONITERATION

RUN_DATETIME
RUN_NO
RUNTYPE
DEMAND_POE_TYPE
AGGREGATION_PERIOD
PERIOD_ENDING
REGIONID
USE_ITERATION_ID

MTPASA_REGIONRESULT

RUN_DATETIME
RUN_NO
RUNTYPE
DEMAND_POE_TYPE
DAY
REGIONID

MTPASA REGIONSUMMARY

RUN_DATETIME
RUN_NO
RUNTYPE
DEMAND_POE_TYPE
AGGREGATION_PERIOD
PERIOD_ENDING
REGIONID

MTPASA_DUIDAVAILABILITY

PUBLISH_DATETIME DAY REGIONID DUID

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20 Package: P5MIN

Name P5MIN

Comment Results from a published Five-Minute Predispatch Run

20.1 List of tables

Name	Comment
P5MIN_BLOCKEDCONSTRAINT	P5MIN Blocked Constraints lists any constraints that were blocked in a P5MIN run. If no constraints are blocked, there will be no rows for that 5 minute predispatch run.
P5MIN_CASESOLUTION	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_CASESOLUTION shows one record containing results pertaining to the entire solution.
P5MIN_CONSTRAINTSOLUTION	The Five-Minute Pre-Dispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The Five-Minute Pre-dispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_CONSTRAINTSOLU

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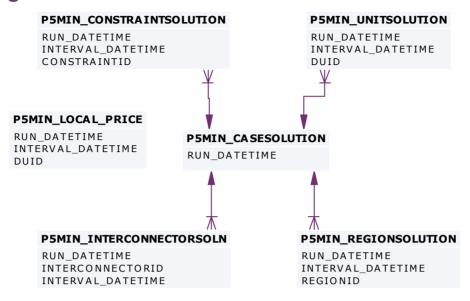
	TION shows binding and violated constraint results from the capacity evaluation, including the RHS value.
P5MIN_FCAS_REQUIREMENT	5-minute Predispatch constraint tracking for Regional FCAS recovery
P5MIN_INTERCONNECTORSOLN	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods.
	P5MIN_INTERCONNECTO RSOLN sets out the results of the capacity evaluation for Interconnectors, including the calculated limits for the interval.
P5MIN_INTERSENSITIVITIES	Price Sensitivies for 5MinPD solution. New solution every 5 minutes. Current Scenarios defined in P5MIN_SCENARIODEMAN DTRK/P5MIN_SCENARIOD EMAND
P5MIN_LOCAL_PRICE	Sets out local pricing offsets associated with each DUID connection point for each dispatch period
P5MIN_PRICESENSITIVITIES	Price Sensitivies for 5MinPD solution. New solution every 5 minutes. Current Scenarios defined in P5MIN_SCENARIODEMAN DTRK/P5MIN_SCENARIOD EMAND
P5MIN_REGIONSOLUTION	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every

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	5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods. P5MIN_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.
P5MIN_SCENARIODEMAND	The P5Min scenario MW offsets
P5MIN_SCENARIODEMANDTRK	Tracks the 5Min scenario offset updates across time
P5MIN_UNITSOLUTION	The five-minute predispatch (P5Min) is a MMS system providing projected dispatch for 12 Dispatch cycles (one hour). The 5-minute Predispatch cycle runs every 5-minutes to produce a dispatch and pricing schedule to a 5-minute resolution covering the next hour, a total of twelve periods.
	P5MIN_UNITSOLUTION shows the Unit results from the capacity evaluations for each period of the study.

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20.2 Diagram: Entities: P5MIN



P5MIN_BLOCKEDCONSTRAINT

RUN_DATETIME CONSTRAINTID

P5MIN_SCENARIODEMANDTRK

EFFECTIVEDATE VERSION_DATETIME

P5MIN_SCENARIODEMAND

EFFECTIVEDATE VERSION_DATETIME SCENARIO REGIONID

P5MIN_INTERSENSITIVITIES

RUN_DATETIME INTERCONNECTORID INTERVAL_DATETIME

P5MIN_PRICESENSITIVITIES

RUN_DATETIME REGIONID INTERVAL_DATETIME

P5MIN_FCAS_REQUIREMENT

RUN_DATETIME
INTERVAL_DATETIME
CONSTRAINTID
REGIONID
BIDTYPE

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21 Package: PARTICIPANT_REGISTRATION

Name PARTICIPANT_REGISTRATION

Comment Participant registration data

21.1 List of tables

Name	Comment
ADG_DETAIL	Table for tracking evolving Aggregate Dispatch Group attributes
AGGREGATE_DISPATCH_GROUP	Entity allowing for compliance monitoring over grouped DUIDs
BIDDUIDDETAILS	BIDDUIDDETAILS and the associated tracking object BIDDUIDDETAILSTRK define the registration data for each ancillary service a dispatchable unit is registered to provide. The registration data is required to validate a dispatchable unit bid submitted for that ancillary service.
BIDDUIDDETAILSTRK	BIDDUIDDETAILSTRK shows the tracking for the associated object BIDDUIDDETAILS. Together, BIDDUIDDETAILSTRK and BIDDUIDDETAILS define the registration data for each ancillary service a dispatchable unit is registered to provide. The registration data is required to validate a dispatchable unit bid submitted for that ancillary service.
DISPATCHABLEUNIT	DISPATCHABLEUNIT sets out the unit name and type of each dispatchable unit in the

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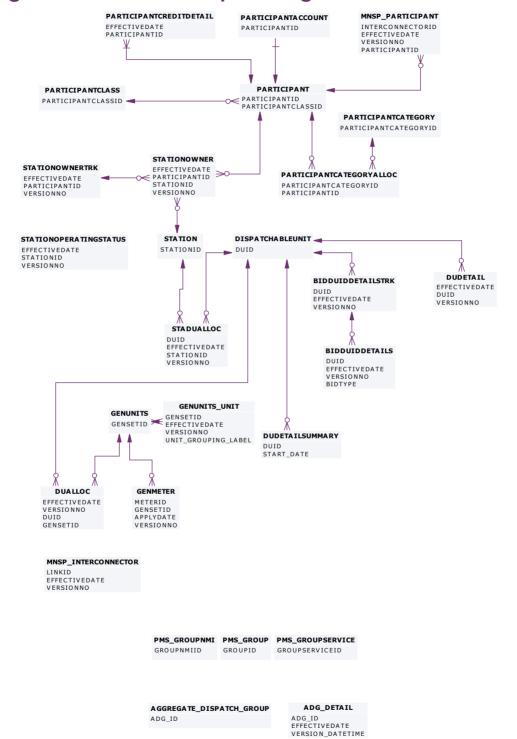
	market.
DUALLOC	DUALLOC cross references dispatch unit identifier to genset ID for each participant.
DUDETAIL	DUDETAIL sets out a records specific details for each unit including start type and whether normally on or off load. Much of this data is information only and is not used in dispatch or settlements.
DUDETAILSUMMARY	DUDETAILSUMMARY sets out a single summary unit table so reducing the need for participants to use the various dispatchable unit detail and owner tables to establish generating unit specific details.
GENMETER	GENMETER shows details of generator meter sets.
GENUNITS	GENUNITS shows Genset details for each physical unit with the relevant station.
GENUNITS_UNIT	Physical units within a Gen Unit Set
MNSP_INTERCONNECTOR	MNSP_INTERCONNECTOR sets out attributes of each interconnector.
MNSP_PARTICIPANT	MNSP_PARTICIPANT registers MNSP ownership.
PARTICIPANT	PARTICIPANT sets out Participant ID, name and class for all participants.
PARTICIPANTACCOUNT	PARTICIPANTACCOUNT shows financial details on participants.
PARTICIPANTCATEGORY	PARTICIPANTCATEGORY sets out valid participant categories.

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PARTICIPANTCATEGORYALLOC	PARTICIPANTCATEGORYA LLOC sets out the assignment of participants to particular categories.
PARTICIPANTCLASS	PARTICIPANTCLASS sets out valid participant classifications.
PARTICIPANTCREDITDETAIL	
PMS_GROUP	Entity table for group
PMS_GROUPNMI	Describe the NMIs that a group uses to provide its service
PMS_GROUPSERVICE	Describe the services a group provides and its relation to a market
STADUALLOC	STADUALLOC sets out details on the allocation of dispatchable units to particular sites or stations.
STATION	STATION sets out valid station identifiers.
STATIONOPERATINGSTATUS	STATIONOPERATINGSTAT US sets out the operating status of each station.
STATIONOWNER	STATIONOWNER sets out the owner details of each station.
STATIONOWNERTRK	STATIONOWNERTRK shows the tracking for the associated object STATIONOWNER. Together, STATIONOWNERTRK and STATIONOWNER sets out the owner details of each station.

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21.2 Diagram: Entities: Participant Registration



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22 Package: PRE_DISPATCH

Name PRE_DISPATCH

Comment Results from a published Predispatch Run

Storage options

There are 2 ways to define the Pre-dispatch table primary keys (PKs) to define which data is loaded to the database and which data is retained:

Option 1 (default)

Overwrite older records when they are succeeded by later versions for the same entity and period. This is the Data Model default and results in the consumption of far less storage. Data Model updates issued by AEMO target this configuration so participants implementing option 2a or 2b must maintain their changes when AEMO releases a new Data Model version.

PredispatchLoad: DateTime, DUID

PredispatchInterconnectorRes: DateTime, InterconnectorID,

PredispatchPrice: DateTime, RegionID

PredispatchPriceSensitivities: DateTime, RegionID

PredispatchInterSensitivities: InterconnectorID, DateTime

PredispatchRegionsum: DateTime, RegionID

Option 2a

Retain only the Pricing records for tables relating to Price data and Physical records for tables relating to Physical data (e.g. targets). Approximately 50 times more storage volumes than option 1.

PredispatchLoad: PredispatchSeqNo, DateTime, DUID

 $\label{lem:predispatch} Predispatch SeqNo,\ Date Time,$

InterconnectorID,

PredispatchPrice: PredispatchSeqNo, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSeqNo, DateTime,

InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, DateTime, RegionID

Option 2b

Retain both Physical and Pricing data for Intervention runs. If Intervention

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cases are stored in entirety, you must select the data carefully. The logic is the same as for Dispatch, i.e. Intervention Pricing is always where Intervention = 0 and Physical data is where Intervention = PredispatchCaseSolution.Intervention for the same PredispatchSegNo.

Doubles the storage of option 2a but ONLY for Intervened cases.

PredispatchLoad: PredispatchSeqNo, Intervention, DateTime, DUID

PredispatchInterconnectorRes: PredispatchSeqNo, Intervention,DateTime, InterconnectorID,

PredispatchPrice: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchPriceSensitivities: PredispatchSeqNo, Intervention, DateTime, RegionID

PredispatchInterSensitivities: PredispatchSeqNo, Intervention, DateTime, InterconnectorID

PredispatchRegionsum: PredispatchSeqNo, Intervention, DateTime, RegionID

Notes:

The data in the PredispatchIS file is always ordered so the pdrLoader writes the relevant data first and discards the subsequent irrelevant data, or writes the subsequent data, depending on how the PKs are defined.

You may order the PKs in a different order, depending on your local requirements. Any decision to change the PK column composition or order must consider the functional and performance impacts to existing applications or queries.

The pdrLoader caches PK definitions for performance reasons so any change to the PKs requires a restart of the application.

The TRANSACTION_TYPE default in the PDR_REPORT_RECORDS management tables for PREDISPATCH* tables is UPDATE-INSERT. You can modify this to INSERT for Option 2b, as the attempt to first perform an update becomes redundant. This can improve load performance.

22.1 List of tables

Name	Comment
PREDISPATCH_FCAS_REQ	PREDISPATCH_FCAS_RE Q shows Predispatch Constraint tracking for

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	Regional FCAS Requirements.
PREDISPATCH_LOCAL_PRICE	Sets out local pricing offsets associated with each DUID connection point for each dispatch period
PREDISPATCH_MNSPBIDTRK	PREDISPATCH_MNSPBIDT RK shows the MNSP bid tracking, including the bid version used in each predispatch run for each MNSP Interconnector Link. PREDISPATCH_MNSPBIDT RK shows the audit trail of the bid used for each predispatch run.
PREDISPATCHBLOCKEDCONSTRAINT	PREDISPATCH Blocked Constraints lists any constraints that were blocked in a Predispatch run. If no constraints are blocked, there will be no rows for that predispatch run.
PREDISPATCHCASESOLUTION	PREDISPATCHCASESOLU TION provides information relating to the complete predispatch run. The fields provide an overview of the dispatch run results allowing immediate identification of conditions such as energy or FCAS deficiencies.
PREDISPATCHCONSTRAINT	PREDISPATCHCONSTRAIN T sets out constraints that are binding in each predispatch run and interconnector constraints (whether binding or not). Only binding and interconnector constraints are reported. Binding contracts have marginal value greater than \$0. Interconnector constraints are listed so RHS values can be reported for ST PASA. Constraint solutions only report fixed loading /MR constraints on the next day.

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PREDISPATCHINTERCONNECTORRES	PREDISPATCHINTERCON NECTORRES records Interconnector flows and losses for the periods calculated in each predispatch run. Only binding and interconnector constraints are reported. Some fields are for the Frequency Controlled Ancillary Services export and import limits and extra reporting of the generic constraint setting the energy import and export limits.
PREDISPATCHINTERSENSITIVITIES	PREDISPATCHINTERSENS ITIVITIES sets out the sensitivity flows for each interconnector by period.
PREDISPATCHLOAD	PREDISPATCHLOAD shows pre-dispatch targets for each dispatchable unit, including additional fields to handle the Ancillary Services functionality. No record is written where a unit is not dispatched. PREDISPATCHLOAD shows all the results for each period.
PREDISPATCHOFFERTRK	PREDISPATCHOFFERTRK is for the ancillary service bid tracking of predispatch processing. PREDISPATCHOFFERTRK identifies which bids from BIDDAYOFFER and BIDOFFERPERIOD were applied for a given unit and ancillary service for each predispatch run.
PREDISPATCHPRICE	PREDISPATCHPRICE records predispatch prices for each region by period for each predispatch run, including fields to handle the Ancillary Services functionality.
PREDISPATCHPRICESENSITIVITIES	PREDISPATCHPRICESENS

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	ITIVITIES sets out the sensitivity prices for each region by period.
PREDISPATCHREGIONSUM	PREDISPATCHREGIONSU M sets out the overall regional Pre-Dispatch results for base case details (excluding price).
PREDISPATCHSCENARIODEMAND	PREDISPATCHSCENARIO DEMAND defines the demand offsets that are applied for each of the predispatch sensitivity scenarios.
PREDISPATCHSCENARIODEMANDTRK	Tracks the predispatch scenario offset updates across time

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22.2 Diagram: Entities: Predispatch

PREDISPATCHCASESOLUTION

PREDISPATCHSEQNO RUNNO

PREDISPATCHINTERCONNECTORRES

INTERCONNECTORID DATETIME

PREDISPATCHLOAD

DUID DATETIME

PREDISPATCHCONSTRAINT

CONSTRAINTID DATETIME

PREDISPATCHPRICESENSITIVITIES PREDISPATCHREGIONSUM

REGIONID DATETIME

REGIONID DATETIME

PREDISPATCHOFFERTRK

PREDISPATCHSEQNO DUID BIDTYPE PERIODID

PREDISPATCHPRICE

REGIONID DATETIME

PREDISPATCH MNSPBIDTRK

PREDISPATCHSEQNO LINKID PERIODID

PREDISPATCHSCENARIODEMAND

EFFECTIVEDATE VERSIONNO **SCENARIO** REGIONID

GENCONID REGIONID BIDTYPE DATETIME

PREDISPATCH_FCAS_REQ PREDISPATCHINTERSENSITIVITIES

INTERCONNECTORID DATETIME

PREDISPATCHSCENARIODEMANDTRK

EFFECTIVEDATE VERSIONNO

PREDISPATCHBLOCKEDCONSTRAINT

PREDISPATCHSEONO CONSTRAINTID

PREDISPATCH_LOCAL_PRICE

DATETIME DUID

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23 Package: RESERVE_DATA

Name RESERVE_DATA

Comment Energy and FCAS reserve requirements

23.1 List of tables

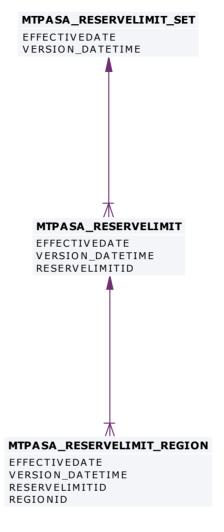
Name	Comment
MTPASA_RESERVELIMIT	MT PASA input table defining a MT PASA Reserve Requirement within a single set. An MT PASA Reserve Requirement can span more than one region.
MTPASA_RESERVELIMIT_REGION	MT PASA input table to define the regions that are part of a single MT PASA Reserve Requirement
MTPASA_RESERVELIMIT_SET	MT PASA input table defining a set of MT PASA Reserve Requirements. Note only one set can be active on a given date.
RESERVE	RESERVE sets out specific reserve requirements for dispatch, predispatch and STPASA, for each half-hour interval by region. Updates show as new versions for a date.

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23.2 Diagram: Entities: Reserve Data

RESERVE

SETTLEMENTDATE VERSIONNO REGIONID PERIODID



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24 Package: SETTLEMENT_CONFIG

Name SETTLEMENT_CONFIG

Comment Configuration and input data for the Settlements Process

24.1 List of tables

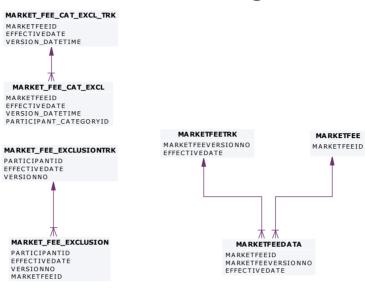
Name	Comment
ANCILLARY_RECOVERY_SPLIT	ANCILLARY_RECOVERY_S PLIT holds the actual customer portion for each service and payment type. A single EFFECTIVEDATE/VERSION NO combination applies to all services (i.e. the latest EFFECTIVEDATE/VERSION NO is not retrieved for a single service, but applies to a data set).
MARKET_FEE_CAT_EXCL	Market fee exclusions for participant categories.
MARKET_FEE_CAT_EXCL_TRK	Tracking table for market fee exclusions for participant categories.
MARKET_FEE_EXCLUSION	MARKET_FEE_EXCLUSION shows the list of market fees from which a participant is excluded from funding after a particular settlement date.
MARKET_FEE_EXCLUSIONTRK	MARKET_FEE_EXCLUSION TRK shows authorisation details of participant market fee exclusion data sets.
MARKETFEE	MARKETFEE sets out fee type and period for each market fee.
MARKETFEEDATA	MARKETFEEDATA sets out actual fee rates, as adjusted from time to time.

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MARKETFEETRK	MARKETFEETRK sets out versions of each market fee used and its effective date.
PARTICIPANT_BANDFEE_ALLOC	PARTICIPANT_BANDFEE_ ALLOC shows the market fee for each Participant/Participant Category over time.
REALLOCATION	The REALLOCATION table shows the financial transactions agreed between two participants that are settled through the AEMO pool settlements process.
REALLOCATIONINTERVAL	30-minute or (5-minute for 5MS) data comprising a single reallocation transaction.
SETCFG_PARTICIPANT_MPF	SETCFG_PARTICIPANT_M PF shows the Market Participation Factors (MPF) for each participant for each connection point. The MPF values are used to determine recovery amounts for regulation FCAS.
SETCFG_PARTICIPANT_MPFTRK	SETCFG_PARTICIPANT_M PFTRK is the tracking table for Market Participation Factors (MPF) data stored in the SETCFG_PARTICIPANT_M PF table for each participant.
SETCFG_SAPS_SETT_PRICE	The Settlement Price for SAPS Energy in each Region
SETCFG_WDR_REIMBURSE_RATE	Settlements WDR transactions
SETCFG_WDRRR_CALENDAR	Wholesale Demand Response Reimbursement Rate Calendar

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24.2 Diagram: Entities: Settlement Config







SETCFG_WDR_REIMBURSE_RATE

WDRRRPERIOD

REGIONID

VERSION_DATETIME

SETCFG_WDRRR_CALENDAR

WDRRRPERIOD

REGIONID

VERSION_DATETIME

SETCFG_SAPS_SETT_PRICE FROMDATE TODATE REGIONID VERSION_DATETIME

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25 Package: SETTLEMENT_DATA

Name SETTLEMENT_DATA

Comment Results from a published Settlements Run. The settlement data and billing

run data are updated daily between 6am and 8am for AEMO's prudential processes. In a normal week, AEMO publishes one PRELIM, one FINAL

and two REVISION runs in addition to the daily runs.

25.1 List of tables

Name	Comment
DAYTRACK	DAYTRACK identifies the actual settlement run processed for each settlement day. Settlement run is in the column EXPOSTRUNNO. Generally the number of the settlement run used in the latest statement is the maximum number.
SET_ APC_COMPENSATION	APC Compensation payment amounts in the Settlements timeframe
SET_ APC_RECOVERY	APC Compensation recovery amounts in the Settlements timeframe
SET_ANCILLARY_SUMMARY	SET_ANCILLARY_SUMMA RY summarises payments for all Ancillary Services to participants on the basis of regions and trading intervals.
SET_ENERGY_TRAN_SAPS	The table shows the Transaction Details for the SAPS Connection Points. The table contains both the MSRPs and Retailers data
SET_FCAS_PAYMENT	SET_FCAS_PAYMENT sets out the enabling payment details for frequency controlled Ancillary Services.

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SET_FCAS_RECOVERY	SET_FCAS_RECOVERY shows reimbursements for the Frequency Control Ancillary Services (FCAS) to be recovered from participants. Beware of potential confusion with the table SETFCASRECOVERY, which reports reimbursements for Frequency Control Ancillary Services Compensation (now unused).
SET_FCAS_REGULATION_TRK	SET_FCAS_REGULATION_ TRK shows FCAS Regulation Service Constraint tracking for Regional FCAS Regulation recovery
SET_NMAS_RECOVERY	SET_NMAS_RECOVERY sets out the NSCAS recovery data for payments other than testing.
SET_NMAS_RECOVERY_RBF	SET_NMAS_RECOVERY_R BF publishes the RBF for NSCAS non testing payments on a half hourly basis.
SET_RECOVERY_ENERGY	Settlements substitution recovery energy used
SET_RUN_PARAMETER	SET_RUN_PARAMETER shows the input parameters and value associated with each settlement run (e.g. Residual System Load Causer Pays Factor).
SET_SUBST_RUN_VERSION	Settlements substitution demand run version numbers
SET_SUBSTITUTE_DEMAND	Settlements substitution demand for Zero Demand figures
SET_WDR_RECON_DETAIL	Settlements WDR reconciliation details
SET_WDR_TRANSACT	Settlements WDR transactions summary

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SETCPDATA	SETCPDATA shows meter settlement data for each connection point. This is the key view for retailers to verify energy charges. A regional summary view is also provided. As the view has values for each connection point by period, for each meter data file, it is a very large view.
SETCPDATAREGION	SETCPDATAREGION sets out summary meter settlement data for each region.
SETFCASREGIONRECOVERY	SETFCASREGIONRECOVE RY shows FCAS Regional Recovery Data against each Trading Interval.
SETGENDATA	SETGENDATA shows meter settlement data for each generation meter point. A regional summary is also provided.
SETGENDATAREGION	SETGENDATAREGION sets out summary settlement data for generation within the specified region.
SETINTRAREGIONRESIDUES	
SETIRAUCSURPLUS	This view supports the Settlements Residue Auction, by holding the NSP participant allocations of IRSurplus arising as a result of the unsold units for a quarter.
SETIRNSPSURPLUS	This view supports the Settlements Residue Auction, by showing the TNSP participant allocations of Interconnector Residue (IR) Surplus (i.e. derogated amounts) arising as a result of the sold units for a quarter.
SETIRPARTSURPLUS	This view supports the Settlements Residue

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	Auction, holding the participant allocations of IRSurplus.
SETIRSURPLUS	SETIRSURPLUS records the interregional residue calculation for each interconnector and each side of the interconnector.
SETLOCALAREAENERGY	SETLOCALAREAENERGY shows the UFE, AGE and associated values for each local area and trading interval in a settlement run.
SETLOCALAREATNI	SETLOCALAREATNI shows the list of TNIs constituent to a local area in a settlement run.
SETLSHEDPAYMENT	SETLSHEDPAYMENT shows specific payment details for load shed services by period.
SETLSHEDRECOVERY	SETLSHEDRECOVERY shows reimbursements for Load shed Ancillary Services to be recovered from participants. (Data no longer created for Settlement Days from 01/07/2012)
SETMARKETFEES	SETMARKETFEES shows payments for market fees for each settlement date.
SETREALLOCATIONS	SETREALLOCATIONS shows the trading interval value of reallocations processed, for those participants whose reallocation submissions have been accepted by AEMO.
SETRESERVERECOVERY	SETRESERVERECOVERY shows reserve recovery details.
SETRESTARTPAYMENT	SETRESTARTPAYMENT shows specific payment details for System Restart

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	services by period.
SETRESTARTRECOVERY	SETRESTARTRECOVERY shows reimbursements for system restart Ancillary Services to be recovered from participants. (Data no longer created for Settlement Days from 01/07/2012)
SETRPOWERPAYMENT	SETRPOWERPAYMENT shows specific payment details for Reactive power services by period.
SETRPOWERRECOVERY	SETRPOWERRECOVERY shows reimbursements for Reactive Power Ancillary Services to be recovered from participants. (Data no longer created for Settlement Days from 01/07/2012)
SETSMALLGENDATA	Publishes metering data and associated settlement values for with a registered Small Generator Aggregator participants connection points.

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25.2 Diagram: Entities: Settlement Data



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26 Package: STPASA_SOLUTION

Name STPASA_SOLUTION

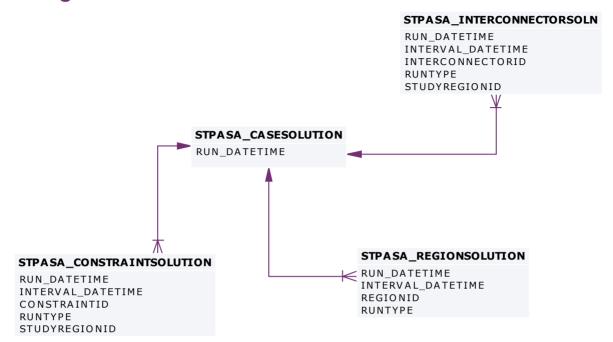
Comment Results from a published Short Term PASA Run

26.1 List of tables

Name	Comment
STPASA_CASESOLUTION	STPASA_CASESOLUTION holds one record containing results pertaining to each entire solution
STPASA_CONSTRAINTSOLUTION	STPASA_CONSTRAINTSOL UTION shows binding and violated constraint results from the capacity evaluation, including the RHS value.
STPASA_INTERCONNECTORSOLN	STPASA_INTERCONNECT ORSOLN shows the results of the capacity evaluation for Interconnectors, including the calculated limits for the interval.
STPASA_REGIONSOLUTION	STPASA_REGIONSOLUTIO N shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study.

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26.2 Diagram: Entities: ST PASA Solution



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27 Package: TRADING_DATA

Name TRADING_DATA

Comment 30 minute Trading interval results

27.1 List of tables

Name	Comment
AVERAGEPRICE30	Reflects the 30-minute average price (the pre-5MS trading price).
TRADINGINTERCONNECT	TRADINGINTERCONNECT shows the Interconnector flows for the 5 minutes Trading Interval.
	Prior to 5 Minute Settlements, this was the average of the six 5 minute dispatch intervals within the 30 minute period.
TRADINGPRICE	TRADINGPRICE sets out 5 minutes spot market price, including fields to handle the Ancillary Services functionality. If prices are adjusted, the final price is recorded in the regional reference price (RRP) field with price before adjustment recorded in the regional original price (ROP) field.
	Prior to 5 Minute Settlements, this was half-hourly spot market values, which was calculated as the average of the six 5 minute dispatch intervals within the 30 minute period.

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27.2 Diagram: Entities: Trading Data

TRADINGINTERCONNECT

SETTLEMENTDATE RUNNO INTERCONNECTORID PERIODID

TRADINGPRICE

SETTLEMENTDATE RUNNO REGIONID PERIODID

AVERAGEPRICE30

PERIODDATE REGIONID

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28 Package: HISTORICAL TABLES

Name HISTORICAL TABLES

Comment These tables are no longer used

28.1 List of tables

Name	Comment
APCCOMP	APCCOMP is to set out Administered Price Cap (APC) compensation periods for a participant.
APCCOMPAMOUNT	APCCOMPAMOUNT shows the Administered Price Cap (APC) compensation amount.
APCCOMPAMOUNTTRK	APCCOMPAMOUNTTRK sets out the relevant Administered Price Cap (APC) period for compensation purposes. Use the APCCOMPAMOUNTTRK table in conjunction with APCAMOUNT.
BIDPEROFFER	BIDPEROFFER shows period-based Energy and Ancillary Service bid data. BIDPEROFFER is a child table of BIDDAYOFFER.
BILLADJUSTMENTS	
BILLING_CSP_DEROGATION_AMOUNT	CSP derogation amounts with respect to participant allocated payment
BILLING_MR_PAYMENT	BILLING_MR_PAYMENT shows aggregate payments on a dispatchable unit/MR Event basis for accepted MR capacity
BILLING_MR_RECOVERY	BILLING_MR_RECOVERY shows aggregate recovery

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	charges on a dispatchable unit / MR Event basis for spot market income from dispatch of MR capacity.
BILLING_MR_SHORTFALL	BILLING_MR_SHORTFALL shows aggregate MR shortfall payments (or recovery charges) to each participant in the region for the MR event.
BILLING_MR_SUMMARY	BILLING_MR_SUMMARY shows aggregate payment/recovery and shortfall figures for an MR Event.
BILLING_RES_TRADER_PAYMENT	Billing result table for reserve trader contract payments
BILLING_RES_TRADER_RECOVERY	Billing result table for reserve trader contract recovery
BILLINGCPSUM	BILLINGCPSUM shows adjustments for a billing run by participant.
BILLINGCUSTEXCESSGEN	BILLINGCUSTEXCESSGEN shows excess generation payments for each participant cutover.
BILLINGEXCESSGEN	BILLINGEXCESSGEN shows the excess generation cost by period for each participant.
BILLINGINTERVENTION	BILLINGINTERVENTION shows billing intervention recovery details.
BILLINGINTERVENTIONREGION	BILLINGINTERVENTIONRE GION shows recovery charges for region intervention.
BILLINGRESERVERECOVERY	BILLINGRESERVERECOVE RY shows Market Reserve recovery details for each participant in a bill run.
BILLINGRESERVEREGIONRECOVERY	BILLINGRESERVEREGION RECOVERY shows Billing Region Reserve region

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	recovery details for each participant (by region).
BILLINGRESERVETRADER	BILLINGRESERVETRADER shows Billing Market Reserve TRADER payment details to Generators.
BILLINGRESERVETRADERREGION	BILLINGRESERVETRADER REGION shows Billing Region Reserve Trader payment details.
BILLINGSMELTERREDUCTION	BILLINGSMELTERREDUCTI ON shows the smelter reduction payment (only applies to participants with Victorian customer connection points).
BILLINTERVENTIONRECOVERY	BILLINTERVENTIONRECO VERY shows billing market intervention recovery details for each participant.
BILLINTERVENTIONREGIONRECOVERY	BILLINTERVENTIONREGIO NRECOVERY shows billing region intervention recovery details for each participant by region.
BILLSMELTERRATE	BILLSMELTERRATE is standing data, setting out the rates used in smelter reduction calculations.
CONNECTIONPOINT	CONNECTIONPOINT shows all valid connection points and their type. Transmission loss factors are available for all connection points in TRANSMISSIONLOSSFACT OR.
CONNECTIONPOINTDETAILS	CONNECTIONPOINTDETAI LS is obsolete, since it was never populated by Participants accessing AEMO's Oracle Interface.
	CONNECTIONPOINTDETAI LS was designed to show relevant details for each connection point including the responsible party, loss

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	factor and relevant MDAs.
CONNECTIONPOINTOPERATINGSTA	CONNECTIONPOINTOPER ATINGSTA shows whether a connection point is active or not.
CONTRACTGOVERNOR	CONTRACTGOVERNOR became unused when Ancillary Services Review was implemented in 2001. For more details, see Change Notice 126.
	CONTRACTGOVERNOR shows Governor contract details used in the settlement and dispatch of this service. Note services are dispatched as 6 and 60 raise and lower Frequency Control Ancillary Services (FCAS). Lower and raise 6 and 60 second fields are used in dispatch of services. Deadband and Droop details are used in settlements.
CONTRACTRESERVEFLAG	CONTRACTRESERVEFLAG has never been or will be used. It was to show a period by period flag for regional or market recovery of reserve trading contract amounts.
CONTRACTRESERVETHRESHOLD	CONTRACTRESERVETHR ESHOLD shows reserve contract threshold details for enabling, usage and availability thresholds and rates for reserve trader contracts.
CONTRACTRESERVETRADER	CONTRACTRESERVETRA DER shows reserve trader contract details. Version numbers do not apply as contracts exist for specified purposes.
CONTRACTUNITLOADING	CONTRACTUNITLOADING became unused when Ancillary Services Review was implemented in 2001. For more details, see

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	Change Notice 126.
	CONTRACTUNITLOADING shows Unit Loading contract details used in the settlement and dispatch of this service.
CONTRACTUNITUNLOADING	CONTRACTUNITUNLOADI NG shows Ancillary Service contract data for rapid generator unit unloading.
DAYOFFER	DAYOFFER sets out the participants' daily components of participant bid containing details applying for the whole day (such as prices, daily energy constraint and fast start profiles).
	To retrieve full bid details, read in conjunction with PEROFFER.
DAYOFFER_D	DAYOFFER_D sets out the participants' daily components of participant bid containing just the latest details (such as prices, daily energy constraint and fast start profiles). To retrieve latest bid details, read in conjunction with PEROFFER_D.
DEFAULTDAYOFFER	DEFAULTDAYOFFER shows day-based details of participants' default bids unit for the same day.
DEFAULTOFFERTRK	DEFAULTOFFERTRK shows the file names of default offers submitted for each unit.
DEFAULTPEROFFER	DEFAULTPEROFFER shows half hourly period- based data in the default bid for each Dispatchable Unit, such as period availability, rate of change and band quantities.
DELTAMW	DELTAMW sets out the

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	Frequency Control Ancillary Services (FCAS) requirement to be provided locally within each region and each half-hour period in a market day. Two fields specify Frequency Controlled Ancillary Services requirements to be provided locally for the new regulation ancillary services.
DISPATCHBIDTRK	DISPATCHBIDTRK shows the bid tracking, including the bid version used in each dispatch run for each unit. DISPATCHBIDTRK is the audit trail of the bid actually used in each dispatch.
DISPATCHCASE_OCD	DISPATCHCASE_OCD shows the key data to indicate when an over-constrained dispatch (OCD) re-run actually occurred. One record per over-constrained dispatch interval.
DISPATCHCASESOLUTION_BNC	DISPATCHCASESOLUTION _BNC was discontinued on 30 September 2009. Prior: DISPATCHCASESOLUTION _BNC is the key data to indicate when a binding intra- regional network constraints (BNC) re-run actually occurred.
DISPATCHLOAD_BNC	DISPATCHLOAD_BNC was discontinued on 30 September 2009. Prior: DISPATCHLOAD_BNC gives binding intra-regional network constraints (BNC) re-run dispatch results for all scheduled generating units. DISPATCHLOAD_BNC has a similar structure to DISPATCHLOAD but does not repeat input type data (e.g. InitialMW, AGCStatus) since these values are available from DISPATCHLOAD.

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DISPATCHTRK	DISPATCHTRK is no longer used. DISPATCHTRK was the cross-reference between each dispatch run and SPD case run. DISPATCHTRK may be available on the InfoServer but not replicated to participant databases as it contains data duplicated in other tables.
FORCEMAJEURE	FORCEMAJEURE used to set out the start and end dates / periods of any force majeure event. FORCEMAJEURE is not used.
FORCEMAJEUREREGION	FORCEMAJEUREREGION used to set out regions impacted by a force majeure event. This table is not used.
GENUNITMTRINPERIOD	GENUNITMTRINPERIOD shows meter reading by period for each generator meter. GENUNITMTRINPERIOD covers generated power flowing into the system. It is used to calculate settlement values.
INTCONTRACT	INTCONTRACT shows intervention contract details. These are specific to each intervention.
INTCONTRACTAMOUNT	INTCONTRACTAMOUNT shows intervention contract amounts.
INTCONTRACTAMOUNTTRK	INTCONTRACTAMOUNTTR K shows the latest valid version of each intervention contract.
INTERCONNMWFLOW	INTERCONNMWFLOW shows Metered Interconnector flow data. INTERCONNMWFLOW shows the meter data provided by Meter Data Providers to MSATS.

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	Despite the name, this view shows metered energy (MWh) and not power flow (MW).
MARKETSUSPENSION	MARKETSUSPENSION is obsolete from 2017 End of Year DM4.27 Release.
	MARKETSUSPENSION sets out a start and end periods of any market suspension and the reason.
MARKETSUSREGION	MARKETSUSREGION is obsolete from 2017 End of Year DM4.27 Release.
	MARKETSUSREGION sets out a regions affected by a market suspension.
MAS_CP_CHANGE	MAS_CP_CHANGE records pending changes to the current MAS configuration.
MAS_CP_MASTER	MAS_CP_MASTER shows the current MAS configuration.
METERDATA	METERDATA sets out a meter data for each customer connection point. METERDATA covers market load. Use the field METERRUNNO to match the meter data version for each settlement run.
METERDATA_GEN_DUID	Recorded actual generation of non-scheduled units where SCADA data is available.
METERDATA_TRK	Tracking table for the publication of wholesale settlement data associated with BILLING run
METERDATATRK	METERDATATRK records meter data files submitted for each connection point on a daily basis. The same data is provided in METERDATA period by period (i.e. 48 records), whereas

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	METERDATATRK shows one record per day for each file submitted for a connection point.
MNSP_FILETRK	MNSP_FILETRK shows all MNSPOFFERS transmitted to the MMS system.
MNSP_OFFERTRK	MNSP_OFFERTRK records all valid MNSPOFFERS loaded into the MMS system. The authorised date reflects the date and time of the load. MNSP_OFFERTRK is key for tracking MNSP bid submission.
MNSP_PEROFFER	MNSP_PEROFFER shows period by period availability and other period data pertaining to a specific bid and LinkID for the given Settlement Date.
	MNSP_PEROFFER is a child to MNSP_DAYOFFER and links to MNSP_OFFERTRK.
MR_DAYOFFER_STACK	MR_DAYOFFER_STACK defines the Stack order for each version of the Acceptance Schedule, including all units submitting MR offers for that event. MR_DAYOFFER_STACK is the child to MR_EVENT_SCHEDULE, and parent to MR_PEROFFER_STACK.
MR_EVENT	MR_EVENT defines an MR Event for a given region on a specific trading date.
MR_EVENT_SCHEDULE	MR_EVENT_SCHEDULE defines the Stack version of the Acceptance Schedule and is the parent table to MR_DayOffer_Stack and MR_PerOffer_Stack.
MR_PEROFFER_STACK	MR_PEROFFER_STACK defines the accepted

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	capacity on a period basis for the Acceptance Schedule, is a child table to MR_DayOffer_Stack and only includes records or units with accepted_capacity > 0 for the specific period.
MTPASA_CASE_SET	MTPASA_CASE_SET is obsolete from 2005 End of Year Release. The RUNTYPE added to the primary key of the detail tables for MTPASA allows for the different types of runs for each case. MTPASA_CASE_SET allows a MT PASA scenario to be
	linked across runs.
MTPASA_CASESOLUTION	MTPASA_CASESOLUTION is obsolete from 2017 End of Year DM4.27 Release.
	MTPASA_CASESOLUTION holds one record for each entire solution.
	Change Notice 379 announced the replacement of the MT PASA data model so all MTPASAxxx tables become obsolete, replaced by MTPASA_xxx tables.
MTPASA_CONSTRAINTSOLUTION	MTPASA_CONSTRAINTSO LUTION is obsolete from 2017 End of Year DM4.27 Release.
	The MTPASA_CONSTRAINTSO LUTION table holds the binding and violated constraint results from the capacity evaluation, including the RHS value.
	Change Notice 379 announced the replacement of the MT PASA data model so all MTPASAxxx tables become obsolete, replaced by MTPASA_xxx tables.
MTPASA_INTERCONNECTORSOLUTION	MTPASA_INTERCONNECT ORSOLUTION is obsolete

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	from 2017 End of Year DM4.27 Release. The MTPASA_INTERCONNECT ORSOLUTION table shows the results of the capacity evaluation for Interconnectors, including the calculated limits for the Idcblock within the day. Change Notice 379 announced the replacement of the MT PASA data model so all MTPASAxxx tables become obsolete, replaced by MTPASA_xxx tables (see Change Notices 400, 400a and 400b).
MTPASA_REGIONSOLUTION	MTPASA_CASESOLUTION is obsolete from 2017 End of Year DM4.27 Release. The MTPASA_REGIONSOLUTIO N table shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each day and Idcblock of the study.
MTPASA_RESERVELIMITSOLUTION	MTPASA_RESERVELIMITS OLUTION is obsolete from 2017 End of Year DM4.27 Release. MT PASA Solution table reporting whether a MT PASA Reserve requirement is binding for each day and LDC block of the run.
MTPASACONSTRAINTSOLUTION_D	MTPASACONSTRAINTSOL UTION_D sets out MT PASA constraint solution results, where constraints are binding.
MTPASAINTERCONNECTORSOLUTION_D	MTPASAINTERCONNECTO RSOLUTION_D shows interconnector results for MT PASA, shown region by region.

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MTPASAREGIONSOLUTION_D	MTPASAREGIONSOLUTIO N_D shows region results for MT PASA, showing predicted demand and any capacity limits.
OARTRACK	OARTRACK shows an audit trail of bids for a particular settlement day. Corrupt bids do not update OARTRACK, but are just in OFFERFILETRK.
OFFERFILETRK	OFFERFILETRK shows an audit trail of all bid files submitted containing energy bids, including corrupt bids/rebids.
OFFERGOVDATA	OFFERGOVDATA sets out reoffers of governor (6 and 60 second FCAS) availability.
OFFERULOADINGDATA	OFFERULOADINGDATA shows reoffers of rapid unit loading capability.
OFFERUNLOADINGDATA	OFFERUNLOADINGDATA shows reoffers of rapid unit unloading capability.
PASACASESOLUTION	PASACASESOLUTION sets out ST PASA case listing providing details of each STPASA case run.
PASACONSTRAINTSOLUTION	PASACONSTRAINTSOLUTI ON records the latest binding STPASA constraint details for each period. For each solution, the latest recalculation for each period overwrites the previous entry.
PASAINTERCONNECTORSOLUTION	PASAINTERCONNECTORS OLUTION records ST PASA interconnector solutions for the latest period.
PASAREGIONSOLUTION	PASAREGIONSOLUTION shows the Regional solution for ST PASA showing

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	reserves for each half-hour period. This table (PASAREGIONSOLUTION_D) shows the latest calculated result for each period.
PEROFFER	PEROFFER contains the half-hourly period details of daily bids and rebids, to be used in conjunction with DAYOFFER. These views provide period varying details such as rate of change up (ROCUP), rate of change down (ROCDOWN) and band quantities (BANDAVAIL from 1 to 10). PEROFFER is a child table of DAYOFFER.
PEROFFER_D	PEROFFER_D contains the half-hourly period details of daily bids and rebids, to be used in conjunction with DAYOFFER_D. These views provide period varying details such as rate of change up (ROCUP), rate of change down (ROCDOWN) and band quantities (BANDAVAIL from 1 to 10). PEROFFER_D is a child table of DAYOFFER_D.
PREDISPATCHBIDTRK	PREDISPATCHBIDTRK contains an audit trail of bids used in each predispatch run. Where predispatch is over 2 days, two bids are listed.
REALLOCATIONDETAILS	REALLOCATIONDETAILS sets out specific reallocation agreements.
REALLOCATIONINTERVALS	REALLOCATIONINTERVAL S identifies the the reallocation agreement and provides the corresponding reallocation profiles submitted by the participant and accepted by AEMO

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REALLOCATIONS	REALLOCATIONS shows reallocation agreement identifiers with corresponding start and end dates of submitted reallocations as accepted by AEMO.
REGIONFCASRELAXATION_OCD	REGIONFCASRELAXATION _OCD contains details of regional FCAS requirements relaxed in the over- constrained dispatch (OCD) re-run (if there was one).
	Note: INTERVENTION is not included in REGIONFCASRELAXATION _OCD since the relaxation of the FCAS requirement is the same amount in both intervened and non-intervened cases.
SET_CSP_DEROGATION_AMOUNT	A settlement table for the publication of Snowy CSP derogation amounts.
SET_CSP_SUPPORTDATA_CONSTRAINT	A settlements table for the publication of support data for the Snowy CSP derogation amounts. This table publishes the constraint-level information for each five minute interval in the settlement run
SET_CSP_SUPPORTDATA_ENERGYDIFF	A settlements table for the publication of support data for the Snowy CSP derogation amounts. This table publishes energy differential information for each half-hour interval in the settlement run
SET_CSP_SUPPORTDATA_SUBPRICE	A settlements table for the publication of support data for the Snowy CSP derogation amounts. This table publishes substitution price information for each five minute interval in the settlement run
SET_MR_PAYMENT	SET_MR_PAYMENT shows

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	trading interval payments on a dispatchable unit basis for accepted MR capacity.
SET_MR_RECOVERY	SET_MR_RECOVERY shows the trading interval recovery charges on a dispatchable unit basis for spot market income from dispatch of MR capacity.
SETAGCPAYMENT	SETAGCPAYMENT sets out specific payment details for Automatic Generation Control (AGC) services by period.
SETAGCRECOVERY	SETAGCRECOVERY shows reimbursements for Automatic Generation Control (AGC) Ancillary Services to be recovered from participants.
SETAPCCOMPENSATION	SETAPCCOMPENSATION shows Administered Price Cap (APC) compensation payments for each period.
SETAPCRECOVERY	SETAPCRECOVERY shows reimbursements for Administered Price Cap (APC) to be recovered from participants.
SETFCASCOMP	SETFCASCOMP shows the compensation details for Frequency Controlled Ancillary Services (FCAS). These compensation values are calculated by a separate "what if" run of the LP Solver and entered as an unconstrained MW value into settlements.
SETFCASRECOVERY	SETFCASERECOVERY shows reimbursements for the Frequency Control Ancillary Services compensation.
SETGOVPAYMENT	SETGOVPAYMENTshows specific payment details for

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	Governor services by period.
SETGOVRECOVERY	SETGOVRECOVERY shows reimbursements for the Governor Ancillary Services to be recovered from participants.
SETINTERVENTION	SETINTERVENTION shows intervention settlement payment details by unit.
SETINTERVENTIONRECOVERY	SETINTERVENTIONRECOV ERY shows intervention recovery details by participant.
SETIRFMRECOVERY	SETIRFMRECOVERY sets out reimbursements for Industrial Relations Force Majeure to be recovered from participants.
SETLULOADPAYMENT	SETLULOADPAYMENT shows specific payment details for rapid unit load services by period.
SETLULOADRECOVERY	SETLULOADRECOVERY shows reimbursements for rapid-unit-load Ancillary Services to be recovered from participants.
SETLUNLOADPAYMENT	SETLUNLOADPAYMENT shows specific payment details for rapid unit unload service.
SETLUNLOADRECOVERY	SETLUNLOADRECOVERY shows reimbursements for rapid unit unloading Ancillary Services to be recovered from participants.
SETRESERVETRADER	SETRESERVETRADER shows reserve trader details.
SETVICBOUNDARYENERGY	SETVICBOUNDARYENERG Y is as requested by Participants for the settlement of Victorian Vesting contracts.

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SETVICENERGYFIGURES	SETVICENERGYFIGURES is used in settlement of Victorian Vesting contracts.
SETVICENERGYFLOW	SETVICENERGYFLOW is used in settlement of Victorian Vesting contracts.
STPASA_SYSTEMSOLUTION	STPASA_SYSTEMSOLUTIO N is obsolete from 2005 End of Year Release. For solution information, see Region solution tables.
	STPASA_SYSTEMSOLUTIO N showed the results of the system capacity evaluations for each interval of the study.
STPASA_UNITSOLUTION	STPASA_UNITSOLUTION shows the unit results from the capacity evaluations for each period of the study.
TRADINGLOAD	TRADINGLOAD shows half-hourly average dispatch levels, including fields to handle the Ancillary Services functionality.
TRADINGREGIONSUM	TRADINGREGIONSUM sets out the half-hourly average regional demand and frequency control services. TRADINGREGIONSUM includes fields for the Raise Regulation and Lower Regulation Ancillary Services plus improvements to demand calculations.

28.2 Diagram: Entities: Historical Tables

These are not shown as the tables are no longer used

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29 Package: PDPASA

Name PDPASA

Comment The PDPASA package provides a 30-minute solving process to the

Market systems

The current methodology for calculating reserves in the PreDispatch timeframe is determined in a post processing step using a heuristic calculation based the results and Interconnector limits from the

PreDispatch run.

The calculation is a reserve assessment based on the PASA solver similar

to existing ST and MT PASA business processes

The process reflects all intra-regional and inter-regional network

constraints as an input to the process

29.1 List of tables

Name	Comment
PDPASA_CASESOLUTION	The top-level table identifying a PDPASA case, reporting options applied in the case and summary results
PDPASA_CONSTRAINTSOLUTION	PDPASA_CONSTRAINTSO LUTION shows binding and violated constraint results from the capacity evaluation, including the RHS value.
PDPASA_INTERCONNECTORSOLN	PDPASA_INTERCONNECT ORSOLN shows the results of the capacity evaluation for Interconnectors, including the calculated limits for the interval.
PDPASA_REGIONSOLUTION	The PDPASA region solution data

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29.2 Diagram: Entities: PD PASA

PDPASA_CASESOLUTION



RUN_DATETIME INTERVAL_DATETIME REGIONID RUNTYPE

PDPASA_INTERCONNECTORSOLN

RUN_DATETIME
INTERVAL_DATETIME
INTERCONNECTORID
RUNTYPE
STUDYREGIONID

PDPASA_CONSTRAINTSOLUTION

RUN_DATETIME
INTERVAL_DATETIME
CONSTRAINTID
RUNTYPE
STUDYREGIONID

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30 Package: PRUDENTIALS

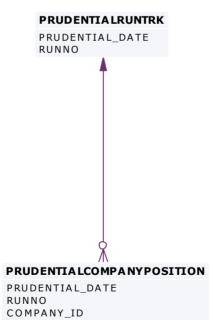
Name PRUDENTIALS

Comment Prudential Management

30.1 List of tables

Name	Comment
PRUDENTIALCOMPANYPOSITION	The prudential position of each company as at the datetime of a specific prudential run
PRUDENTIALRUNTRK	Records the prudential run accepted by Settlements staff for each prudential date

30.2 Diagram: Entities:Prudentials



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31 Package: MCC_DISPATCH

Name MCC_DISPATCH

Comment Results from the Marginal Constraint Cost (MCC) re-run of the dispatch

process. The MCC forms part of the part of the AER's "Electricity transmission network service providers Service target performance

incentive Scheme"

31.1 List of tables

Name	Comment
MCC_CASESOLUTION	Top level table for each MCC dispatch rerun process. Note there will be one record for each dispatch interval
MCC_CONSTRAINTSOLUTION	Constraint solution data from the MCC dispatch rerun process. Note only constraints with a non-zero marginal value are published.

31.2 Diagram: Entities: MCC_Dispatch

MCC_CASESOLUTION RUN_DATETIME

MCC_CONSTRAINTSOLUTION

RUN_DATETIME CONSTRAINTID

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32 Package: NETWORK

Name NETWORK

Comment Configuration data for the physical network

32.1 List of tables

Name	Comment
NETWORK_EQUIPMENTDETAIL	NETWORK_EQUIPMENTDE TAIL Provides details on equipment that may have outages or ratings. A single piece of equipment may have multiple records if its details change.
	A line will typically have at least two valid records at a time, once for each end of the line.
NETWORK_OUTAGECONSTRAINTSET	NETWORK_OUTAGECONS TRAINTSET lists the Constraint Set or Sets that are expected to be invoked for the outage once it is confirmed to proceed.
NETWORK_OUTAGEDETAIL	Lists asset owners planned outages for transmission equipment. This also includes details for transmission equipment that will not have an outage, but associated secondary equipment has an outage and a related constraint set may be invoked. This scenario is indicated by the ISSECONDARY field in the table
NETWORK_OUTAGESTATUSCODE	NETWORK_OUTAGESTAT USCODE describes the different outage status codes
NETWORK_RATING	NETWORK_RATING defines a list of the equipment ratings that may be used as

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	inputs to market constraints.
	If the rating is flagged as dynamic then in real-time the rating will be dynamically determined and the static value will be used as a fallback value should the dynamic value fail. Note:
	In some rare cases equipment has ratings provided from more than one TNSP. This is identified by a different SPD Id. The value used in the NEM is normally the more restrictive of the two values.
NETWORK_REALTIMERATING	The NETWORK_REALTIMERATI NG table shows the equipment rating values in MVA used as inputs to constraints in the dispatch solution. This includes values for both static and dynamic ratings. The NETWORK_RATING table can be used to determine the physical equipment the rating is for based on the SPD_ID value.
NETWORK_STATICRATING	NETWORK_STATICRATING lists the static rating values that will apply for a Rating Application ID.
	This data does not provide information for when the rating actually applies in the NEM. This is dependent on the Rating Application definition.
	For information on the Rating Applications please refer to the information published on the AEMO website under the topic "Transmission Equipment Ratings". The Rating Applications are referred to as Alternate Value Application Ratings.

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	Ratings that normally use dynamic values will also have static rating values defined. These are used as a fallback if the dynamic rating fails.
NETWORK_SUBSTATIONDETAIL	NETWORK_SUBSTATIOND ETAIL sets out the attributes of sub-stations across time

32.2 Diagram: Entities: NETWORK

NETWORK_SUBSTATIONDETAIL

SUBSTATIONID VALIDFROM

NETWORK_EQUIPMENTDETAIL

SUBSTATIONID EQUIPMENTTYPE EQUIPMENTID VALIDFROM ELEMENTID

NETWORK_OUTAGEDETAIL

OUTAGEID SUBSTATIONID EQUIPMENTTYPE EQUIPMENTID STARTTIME ELEMENTID

NETWORK_OUTAGESTATUSCODE

OUTAGESTATUSCODE

NETWORK_OUTAGECONSTRAINTSET

OUTAGEID GENCONSETID

NETWORK_RATING

SPD ID VALIDFROM

SUBSTATIONID EQUIPMENTTYPE EQUIPMENTID RATINGLEVEL APPLICATIONID VALIDFROM

NETWORK_STATICRATING NETWORK_REALTIMERATING

SETTLEMENTDATE SPD_ID

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33 Package: VOLTAGE_INSTRUCTIONS

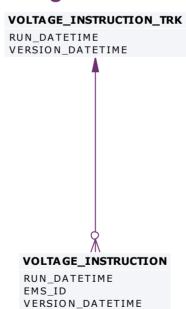
Name VOLTAGE_INSTRUCTIONS

Comment Instructions for MVAr Dispatch

33.1 List of tables

Name	Comment
VOLTAGE_INSTRUCTION	Child record for Voltage Instructions (MVAr Dispatch)
VOLTAGE_INSTRUCTION_TRK	Parent record for Voltage Instructions (MVAr Dispatch). 'SIGNAL' records will have no children; 'INSTRUCTION' records will have children

33.2 Diagram: Entities: Voltage Instructions



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