

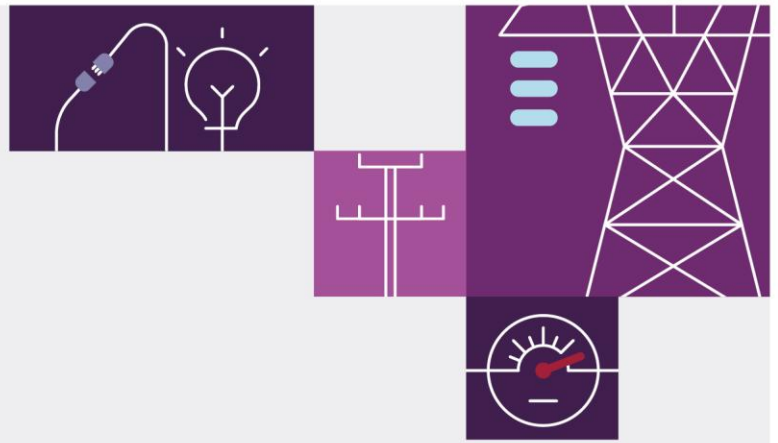
EMMS - Technical Specification – Data Model v5.7 - May 2026

1.000.01 January 2026

Pre-production: Tuesday 14 April 2026

Production: Thursday 14 May 2026





Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the EMMS - Technical Specification – Data Model v5.7 - May 2026. The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- **Text in this format** is a link to related information. Some links require access to MarketNet.
- **Text in this format**, indicates a reference to a document on AEMO's website.
- **Text in this format** is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in the Glossary.
- Rules Terms have the meaning listed against them in the [National Electricity Rules](#) (Rules).

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Distribution

Available to the public.

Document Identification

Prepared by: AEMO Digital

Last update: Tuesday, 27 January 2026 12:15 PM

Version History

~~1.000-01~~ Initial creation

Documents made obsolete

The release of this document changes only the version of EMMS - Technical Specification – Data Model v5.7 - May 2026.

Support Hub

To contact AEMO's Support Hub use Contact Us on AEMO's website or for urgent matters phone: 1300 AEMO 00 (1300 236 600).

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1 Introduction

1.1 Audience

AEMO provides this information as a service targeting business analysts and IT staff in Registered Participant companies.

1.2 Objective

The EMMS - Technical Specification – Data Model v5.7 - May 2026 describes the projects planned by AEMO from a participant perspective and includes any system related changes for participants.

1.3 Status

Version	Status
<u>1.00</u>	<u>In progress. The design is not ready for participants' builds</u> <u>Improving Security Frameworks (ISF) – Design complete estimation – 80%</u> <u>STPASA Replacement Project - Design complete estimation – 70%</u> <u>Shortening the Settlement Cycle (SSC) - Design complete estimation – 80%</u> <u>Project Energy Connect - Market Integration (PEC-MI) - Design complete estimation – 80%</u>
<u>0.010-01</u>	 Initial Draft for review. The design is not ready for participants' builds Presents the EMMS - Technical Specification – Data Model v5.7 - May 2026 evolving design. Please send feedback to Contact Us . In the Details of your enquiry section, mention the EAS Knowledge Management as the Resolver group.

1.4 Release dates

Scheduled for implementation in:

- Pre-production: Tuesday 14 April 2026
- Production: Thursday 14 May 2026

1.5 Rule and procedure changes

The following rules and procedures take precedence over technical specifications and guides.

For details, see the **Rule and procedure changes** section in the technical specifications mentioned in Related technical specifications.

1.6 Related technical specifications

Title	Description
EMMS Technical Specification August 2026	Changes related to Shortening the Settlement Cycle (SSC)
EMMS System Security Management - November 2026	Changes related to the Improving Security Frameworks (ISF) project

1.7 Related documents

Once published, these resources take precedence over this technical specification

These guides and resources are updated according to this technical specification and published by the dates below.

Title	Description	Published
Data Interchange Online Help	Help for participants using Data Interchange and the Data Model	See Release Dates in Timeline
Data Model Reports	Explains the packages, tables and reports in the Electricity and Gas Data Models	
Release Documents	Release Notes	

1.8 Approval to change

AEMO ~~requested~~request approval to proceed from all ~~participants~~participant change controllers. We ~~deem the change approved if a response is not received within 15 business days~~ by close of business ~~5th Monday, 5~~ January 2026.

~~Please send your response by email to the AEMO Information and Support Hub: <mailto:supporthub@aemo.com.au> with the following details:~~

- ~~• Name~~
- ~~• Organisation~~
- ~~• Contact details~~
- ~~• Response Yes or No~~
- ~~• Comments~~

1.9 Market systems user group meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

MSUG meetings are open to all interested parties, with invitations sent to all included on the distribution list. If you have a technical question for a project and want to attend the MSUG ask your company's support team to include your email address in their AEMO Help Desk Bulletin (CRM) distribution list.

1.10 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review these changes, detailed below.

1.11 Changes in this version

- New project added Project Energy Connect - Market Integration (PEC-MI) with modification in Dispatch package
- Updates to packages
- Updates reports
- Updates to File interface changes

- Updates to Participant interfaces changes

~~No changes, this is the initial version.~~

2 Proposed Timeline

The dates for the Market System User Group Meetings (MSUG) are tentative. We will provide an invitation one week prior to the meeting.

Milestone	Date	Description
Approval required	5 January 2025 19-December-2025 + 15 business days 3 January 2025	AEMO requested Final date for participant approval to proceed from all participants by close of this Release Published date 19-December-2025 + 15 business 5th January 2026 days from final release schedule
Revised Technical Specification	January 2026	AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth From the production release, the technical specification becomes final and the related documents become the source of truth Technical Specification Portal
Related Documents publication	Tuesday 14 April 2026	Release of guides and resources mentioned in Related on page 10
Next MSUG meeting	Wednesday 11 February 2026 17 December 2025	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions This date is tentative. The Knowledge Management Team provides the invitation prior to the meeting
Pre-production Data Model auto subscription	TBC	For any existing files with modified or new tables, if participants are subscribed, AEMO moves them to the Legacy version
Pre-production Data Model release	Tuesday 14 April 2026	Participant Data Model scripts released
Pre-production refresh	13 April 2026 – 17 April 2026	Refresh of the pre-production system with data refreshed from the production system. An outage of up to five days can occur to the pre-production environment during this period. Participant access is not restricted, however, AEMO do not guarantee the pre-production data content or system availability. During the refresh, access to other AEMO systems such as AWEFS, EMMS, OPDMS, and STTM may be intermittently affected

Proposed Timeline

Milestone	Date	Description
Pre-production implementation	14 April 2026	AEMO implements components of the Release to pre-production for participant testing AEMO has full access to the system during this period Participant access is not restricted; however, the data content or system availability is not guaranteed
Pre-production available	Tuesday 14 April 2026	Testing period begins for participants
Participant Testing	14 April 2026 - 14 May 2026	Unstructured participant testing in the pre-production environment
Production implementation	Thursday 14 May 2026	AEMO implements the release to production
Production Data Model auto subscription	TBC	For any existing files with modified or new tables, if participants are subscribed, AEMO moves them to the Legacy version
Production Data Model release	Thursday 14 May 2026	Participant Data Model scripts released

3 Participant Impact

3.1 Electricity data model v5.7

Participants must upgrade to the latest version of Data Model 5.7 to receive the new and updated Data Model information in their Data Interchange environments.

3.2 Data population dates

3.2.1 Shortening the settlement cycle (SSC)

Pre-production: 8 June 2026

Production: 6 August 2026

3.2.2 ST PASA replacement

Pre-production: 1 May 2026 (TBC)

Production: 31 August 2026

3.2.3 Improving security frameworks (ISF) - release 1.1

Pre-production: October 2026 (TBC)

Production: November 2026 (TBC)

3.2.4 Project Energy Connect - Market Integration (PEC-MI)

Pre-production: TBC

Production: TBC

3.3 Data subscription

3.3.1 Auto-subscription

Existing participants are auto subscribed to any new files when they upgrade to the latest data model version. New file names to be advised.

3.3.2 Legacy files

On the [Release Dates](#), AEMO moves participants subscribed to existing files to the Legacy version. After you have upgraded to v5.6, subscribe to the current files in [Data Subscription](#). For help, see [Subscribe to Files](#).



4 Electricity Data Model 5.7

Participant systems incorrectly configured and not compliant with the Baseline Assumptions in the Data Interchange Framework and Glossary may suffer data loss.

This Release contains an updated version of the Electricity Data Model 5.7. This section describes the affected packages, tables, files, reports, and interfaces.

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4.2 Package: BILLING_CONFIG

Configuration data for the Billing Process

4.2.1 Modified table: BILLINGCALENDAR

Comment	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.
Visibility	Public
Data volume	52-53 records inserted per contractyear
Trigger	Triggered when inserting billing weeks for a future contract year
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTRACTYEAR, WEEKNO
Project	Shortening the Settlement Cycle



New columns

Field name	Data type	Primary key	Comment
REVISION0_STATEMENTDATE	DATE	No	Revision 0 Statement Date for the billing week.

4.3 Package: 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.

4.3.1 Modified table: BILLINGRUNTRK

Comment	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.
Visibility	PublicPrivate
Data volume	Medium
Trigger	Triggered and populated by the posting of a billing run
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	BILLRUNNO, CONTRACTYEAR, WEEKNO



Comment	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.
Project	Shortening the Settlement Cycle

New columns

Field name	Data type	Primary key	Comment
REVISIONINDEX	NUMBER(3,0)	No	Revision Run Type

4.4 Package: DISPATCH

Results from a published Dispatch Run

4.4.1 Modified table: NEGATIVE RESIDUE

Comment	Shows the inputs provided to the Negative Residue Constraints in the Dispatch horizon, as determined by the automated NRM process's calculations.
Visibility	Public
Data volume	Medium
Trigger	With every Dispatch interval



<u>Comment</u>	<u>Shows the inputs provided to the Negative Residue Constraints in the Dispatch horizon, as determined by the automated NRM process's calculations.</u>
<u>Participant file share location</u>	<u><#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports</u>
<u>Primary key (in order)</u>	<u>DIRECTIONAL INTERCONNECTORID, NRM DATETIME, SETTLEMENTDATE</u>
<u>Project</u>	<u>Project Energy Connect Market Integration</u>

New columns

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>NRM LOOP FLAG</u>	<u>NUMBER(1,0)</u>	<u>No</u>	<u>NRM Loop Flag controls monitoring behaviour: 0 = Individual NRM monitoring suppressed (loop operational with aggregate IRSR >= 0) 1 = Individual NRM monitoring active (applies to: loop not operational, aggregate loop IRSR < 0, or non-loop interconnection) This flag is evaluated and set for ALL interconnections in each dispatch interval</u>



4.44.5 Package: GENERIC_CONSTRAINT

4.5.1 Modified table: GENCONDATA

<u>Comment</u>	<u>GENCONDATA sets out the generic constraints contained within a generic constraint set invoked in PASA, Predispatch, dispatch and System Security Management (SSM). Fields enable selective application of invoked constraints in theDispatch, Predispatch, ST PASA or System Security (SSM) processes.</u>
<u>Visibility</u>	<u>Public</u>
<u>Data volume</u>	<u>Medium</u>
<u>Trigger</u>	<u>On Change by AEMO</u>
<u>Participant file share location</u>	<u><#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports</u>
<u>Primary key (in order)</u>	<u>EFFECTIVEDATE, GENCONID, VERSIONNO</u>
<u>Project</u>	<u>Improving Security Frameworks</u>

New columns

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>SYSTEMSECURITY</u>	<u>VARCHAR2(1)</u>	<u>No</u>	<u>Flags constraint is used in System Security Management (SSM) processes. 1-Used (in SSM only), 0-not used</u>
<u>SSM_REGIONID</u>	<u>VARCHAR2(20)</u>	<u>No</u>	<u>Region constraint relates to, in the format <REGIONID> xxxx where xxxx is descriptive text</u>
<u>SSM_GROUPID</u>	<u>VARCHAR2(40)</u>	<u>No</u>	<u>Related constraints processed together in optimiser.</u>



4.4.14.5.2 New table: PASA_CONTINGENCY_DEFINITION

Comment	Create this table in the GENERIC_CONSTRAINT db, so that Contingency Definitions used by the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	On Change
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	CONTINGENCYID, EFFECTIVEDATE, VERSIONNO
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
CONTINGENCYID	VARCHAR2(20)	Yes	The contingency identifier
EFFECTIVEDATE	DATE	Yes	The effective date- for this contingency
VERSIONNO	NUMBER(3,0)	Yes	Version number for the Effective date
CONTINGENCYDESCRIPTION	VARCHAR2(100)	No	The description for this contingency
LASTCHANGED	DATE	No	Date time this record was created



4.5.4.6 Package: PARTICIPANT_REGISTRATION

4.5.14.6.1 New table: PASA_INTERZONAL_MAPPING

Comment	Create this table in the PARTICIPANT_REGISTRATION db, so that the PASA_FNM Inter Zonal mapping can be stored
Visibility	Public
Data volume	Small
Trigger	On change
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERZONALCONNECTORIDINTERZONALID, EFFECTIVEDATE, VERSIONNO
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
INTERZONALCONNECTORIDINTERZONALID	VARCHAR2(50)	Yes	The identifier for this zonal connector
EFFECTIVEDATE	DATE	Yes	EffectiveThe effective date offer for this InterZonal Mapping configuration
VERSIONNO	NUMBER(3,0)	Yes	Version number for the Effective date
FROMZONEID	VARCHAR2(30)	No	The from Zoneld for this zonal connector

Field name	Data type	Primary key	Comment
TOZONEID	VARCHAR2(30)	No	The to ZoneId for this zonal connector
OPERATINGSTATUS	VARCHAR2(20)	No	Active or inactive indicator
LASTCHANGED	DATE	No	Date time this record was created

4.5.24.6.2 New table: PASA_ZONE_REGION_MAPPING

Comment	Create this table in the PARTICIPANT_REGISTRATION db, so that the PASA_FNM Zone to Region mapping can be stored
Visibility	Public
Data volume	Small
Trigger	On Change
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	ZONEID, EFFECTIVEDATE, VERSIONNO
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
ZONEID	VARCHAR2(30)	Yes	Zone identifier



Field name	Data type	Primary key	Comment
EFFECTIVEDATE	DATE	Yes	Effective date of this Zone—Region Mapping
VERSIONNO	NUMBER(3,0)	Yes	Version number for the Effective date
REGIONID	VARCHAR2(20)	No	Region in which this Zone belongs
IS_RRN_ZONE	VARCHAR2(10)	No	YES or NO/<Blank>. LORCONDITION is only reported for deficits in a Zone that contains the Regional Reference Node
OPERATINGSTATUS	VARCHAR2(20)	No	Active or inactive indicator
LASTCHANGED	DATE	No	Date time this record was created

4.64.7 Package: PDPASA

4.6.14.7.1 Modified table: PDPASA_REGIONSOLUTION (comment changes only)

Comment	The PDPASA region solution data. Note that the OUTAGE_LRC Run Type is no longer reported from 31 July 2025.
Visibility	Public
Data volume	Medium
Trigger	PDPASA_REGIONSOLUTION is updated each PDPASA run (i.e. half-hourly).
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE



Comment	The PDPASA region solution data. Note that the OUTAGE_LRC Run Type is no longer reported from 31 July 2025.
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
AGGREGATEPASAavailability	NUMBER(12,0)	No	Sum of PASAavailability for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period <= 24 hours plus the sum of Unconstrained Intermittent Generation Forecasts (UIGF) for all semi-scheduled generating units. For the OUTAGE_LRC run, UIGF is the POE90 forecast. For the LOR Run, UIGF is the POE50 forecast. Note that the OUTAGE_LRC Run Type is discontinued from 31 July 2025. From March 2026, AGGREGATEPASAavailability changes from that with Recall_Period <= 24 to that achievable by the relevant INTERVAL_DATETIME if recalled at the start of the run.

4.7.4.8 Package: PDPASA_FNM

4.7.14.8.1 New table: PDPASA_FNM_CASESOLUTION

Comment	Create this table in the PDPASA_FNM db, so that Case Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium

Comment	Create this table in the PDPASA_FNM db, so that Case Solution from the PASA engine can be stored
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
LORCONDITION	NUMBER(1,0)	No	LORCONDITION is only set if supply deficit exists in a Zone that contains the Regional Reference Node LORCONDITION indicates the most severe condition for the case: LORCONDITION = 3 if deficit in BASE run, else = 2 if deficit in RELIABILITY run, else = 1 if deficit in WARNING run, else 0
DEFICITCONDITION	NUMBER(1,0)	No	DEFICITCONDITION is only set if supply deficit exists in a Zone that does NOT contain the Regional Reference Node DEFICITCONDITION indicates the most severe condition for the case: DEFICITCONDITION = 3 if deficit in BASE run, else = 2 if deficit in RELIABILITY run, else = 1 if deficit in WARNING run, else 0
BASE_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available
RELIABILITY_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available
WARNING_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available



Field name	Data type	Primary key	Comment
PASAVERSION	VARCHAR2(30)	No	Version of the PASA solver used to solve this case
LASTCHANGED	DATE	No	Date time this record was created

4.7.24.8.2 New table: PDPASA_FNM_CONSTRAINTSOLUTION

Comment	Create this table in the PDPASA_FNM db, so that Constraint Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNTYPE, INTERVAL_DATETIME, RUNTYPE, CONSTRAINTID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval

Field name	Data type	Primary key	Comment
RUNTYPE	VARCHAR2(20)	Yes	Run Type (BASE, RELIABILITY, WARNING)
<u>INTERVAL_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>End date time of the interval</u>
CONSTRAINTID	VARCHAR2(100)	Yes	Constraint identifier, either manual constraint (synonymous with GenConID) or thermal constraint created by PASA with format 'BASE_<BranchName> or '<ContingencyIDCtgID>_<BranchName>'
MARGINALVALUE	NUMBER(20,5)	No	Constraint Marginal Value (\$/MW)
VIOLATIONDEGREE	NUMBER(<u>15,512,2</u>)	No	Constraint Violation Degree (MW)
LHS	NUMBER(<u>15,512,2</u>)	No	Constraint LHS (MW)
RHS	NUMBER(<u>15,512,2</u>)	No	Constraint RHS (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.34.8.3 New table: PDPASA_FNM_DUID_AVAILABILITY

Comment	Create this table in the PDPASA_FNM db, so that DUID Availability used in the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, <u>DUIDZONEID</u>



Comment	Create this table in the PDPASA_FNM db, so that DUID Availability used in the PASA engine can be stored
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Project	STPASA Replacement project
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New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
DUID	VARCHAR2(20)	Yes	NEM Dispatchable Unit Identifier
BID_TRADINGDATE	DATE	No	Trading Date of the energy bid
BID_OFFERDATETIME	DATE	No	Date Time that the energy bid was received
GENERATION_MAX_AVAILABILITY	NUMBER (12,6)	No	Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP (MW)
GENERATION_PASA_AVAILABILITY	NUMBER (12,6)	No	PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit (MW)
Project	STPASA Replacement project		

New columns

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>RUN_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run</u>
<u>INTERVAL_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>End date time of the interval</u>
<u>DUID</u>	<u>VARCHAR2(20)</u>	<u>Yes</u>	<u>NEM Dispatchable Unit Identifier</u>
<u>BID_TRADINGDATE</u>	<u>DATE</u>	<u>No</u>	<u>Trading Date of the energy bid</u>
<u>BID_OFFERDATETIME</u>	<u>DATE</u>	<u>No</u>	<u>Date Time that the energy bid was received</u>
<u>GENERATION_MAX_AVAILABILITY</u>	<u>NUMBER</u> <u>(12,3)</u>	<u>No</u>	<u>Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP (MW)</u>
<u>GENERATION_PASA_AVAILABILITY</u>	<u>NUMBER</u> <u>(12,3)</u>	<u>No</u>	<u>PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit (MW)</u>
<u>GENERATION_RECALL_PERIOD</u>	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit (Hours)
<u>LOAD_MAX_AVAILABILITY</u>	NUMBER (12, 36)	No	Available Capacity for a scheduled load or BDU (Load side) (MW)
<u>LOAD_PASA_AVAILABILITY</u>	NUMBER (12, 36)	No	PASA Availability for a scheduled load or BDU (Load side) (MW)
<u>LOAD_RECALL_PERIOD</u>	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled load or BDU (Load side) (Hours)
<u>LASTCHANGED</u>	<u>DATE</u>	<u>No</u>	<u>Date time this record was created</u>



4.7.44.8.4 New table: PDPASA_FNM_INTERCONNECTORSOLN

Comment	Create this table in the PDPASA_FNM db, so that Interconnector Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNTYPE, INTERVAL_DATETIME, RUNTYPE, INTERCONNECTORID
Project	STPASA Replacement project
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval



New columns

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>RUN_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run</u>
RUNTYPE	VARCHAR2(20)	Yes	Run Type (BASE, RELIABILITY, WARNING)
<u>INTERVAL_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>End date time of the interval</u>
INTERCONNECTORID	VARCHAR2(10)	Yes	Interconnector Identifier
CLEAREDFLOW	NUMBER(12,2)	No	Cleared Interconnector flow (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.54.8.5 New table: PDPASA_FNM_INTERZONALSOLUTION

Comment	Create this table in the PDPASA_FNM db, so that Interzonal Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>INTERZONALCONNECTORID</u> , <u>RUNTYPE</u> , <u>INTERZONALID</u>
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME RUNTYPE	VARCHAR2(20) DATE	Yes	Run Type (BASE, RELIABILITY, WARNING) End date time of the interval
INTERVAL_DATETIME RUNTYPE	DATE VARCHAR2(20)	Yes	End date time of the interval Run Type (BASE, RELIABILITY, WARNING)
INTERZONALCONNECTORID INTERZONALID	VARCHAR2(50)	Yes	InterzonalConnector Interzonal Identifier, <FromZoneID> <ToZoneID>
FROMZONEID	VARCHAR2(30)	No	FromZoneID of the InterZonalConnectorID InterZonalID
TOZONEID	VARCHAR2(30)	No	ToZoneID of the InterZonalConnectorID InterZonalID
CLEAREDFLOW	NUMBER(12,2)	No	Cleared Interzonal flow (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.64.8.6 New table: PDPASA_FNM_REGIONSOLUTION

Comment	Create this table in the PDPASA_FNM db, so that Region Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	Create this table in the PDPASA_FNM db, so that Region Solution from the PASA engine can be stored
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>RUNTYPE</u> , REGIONID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME <u>RUNTYPE</u>	VARCHAR2(20) DATE	Yes	Run Type (BASE, RELIABILITY, WARNING) End date time of the interval
RUNTYPE <u>INTERVAL_DATETIME</u>	DATE <u>VARCHAR2(20)</u>	Yes	End date time of the interval Run Type (BASE, RELIABILITY, WARNING)
REGIONID	VARCHAR2(20 40)	Yes	Region Identifier
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists in the Zone for this Region that contains its Regional Reference Node LORCONDITION = 3 if deficit in BASE run LORCONDITION = 2 if deficit in RELIABILITY run LORCONDITION = 1 if deficit in WARNING run
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain its Regional Reference Node DEFICITCONDITION = 3 if deficit in BASE run DEFICITCONDITION = 2 if deficit in RELIABILITY run DEFICITCONDITION = 1 if deficit in WARNING run

Field name	Data type	Primary key	Comment
INITIALDEMAND	NUMBER(12,2)	No	Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)
DEMAND_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable Demand Forecast (MW)
SCHED_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to Scheduled Generation Bid Max Avail (MW)
VRE_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable VRE Forecast (MW)
<u>SCHED_GEN_AUX_LOAD</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Auxiliary Load adjustment to uncertainty-adjusted Bid MaxAvail of all scheduled generating units (MW)</u>
<u>ENERGYUNCONSTRAINED_CLEAREDUNCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from non energy-constrained resources (MW)
<u>ENERGYCONSTRAINED_CLEAREDCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from energy-constrained resources (MW)
CLEAREDNETINTERCHANGE	NUMBER(12,2)	No	Cleared Net Export (positive) or Net Import (negative) (MW)
SS_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled generating units (MW)
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled solar generating units (MW)
SS_WIND_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled wind generating units (MW)
SPARECAPACITY	NUMBER(12,2)	No	Spare generation capacity = max(-0, Available Generation minus [-Cleared Generation minus Cleared Net Interchange]) (MW)
CLEAREDSUPPLY	NUMBER(12,2)	No	Cleared Generation (MW)
CLEAREDLOSSES	NUMBER(12,2)	No	Cleared Grid Losses (MW)



Field name	Data type	Primary key	Comment
CLEAREDDEMAND	NUMBER(12,2)	No	Cleared Demand (MW)
SUPPLYDEFICIT	NUMBER(12,2)	No	Supply Deficit at loads = Max(-0, Initial Demand minus - Cleared Demand-) where Cleared Demand = (Cleared Generation minus Cleared Losses minus Cleared Net Interchange) (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.74.8.7 New table: PDPASA_FNM_REGIONSUMMARY

Comment	Create this table in the PDPASA_FNM db, so that Region Summary from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, REGIONID
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
REGIONID	VARCHAR2(2010)	Yes	Region identifier
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists in the Zone for this Region that contains its Regional Reference Node LORCONDITION indicates the most severe condition: LORCONDITION = 3 if deficit in BASE run; else LORCONDITION = 2 if deficit in RELIABILITY run; else LORCONDITION = 1 if deficit in WARNING run
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain its Regional Reference Node DEFICITCONDITION indicates the most severe condition: DEFICITCONDITION = 3 if deficit in BASE run; else DEFICITCONDITION = 2 if deficit in RELIABILITY run; else DEFICITCONDITION = 1 if deficit in WARNING run
DEMAND50	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast (MW)
DEMAND50_UNSCHEG_GEN	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast plus Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_GEN_AUX_LOAD	NUMBER(12,2)	No	Aggregate Auxiliary Load adjustment to Bid MaxAvail of all scheduled generating units (MW)
SCHED_SS_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled generating units, scheduled bidirectional units (Gen side) and semi-scheduled generating units, with latter capped at UIGF (MW)

Field name	Data type	Primary key	Comment
UNSCHED_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_SS_GEN_PASAAVAIL	NUMBER(12,2)	No	Aggregate Bid PASAAvailability of all scheduled generating units and scheduled bidirectional units (Gen side) with a Bid Recall Period less than (Interval_DateTime minus Run_DateTime) plus UIGF for all semi-scheduled generating units (MW)
SCHED_LOAD_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled loads (MW)
SS_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all semi-scheduled generating units (MW)
SS_SOLAR_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all solar semi-scheduled generating units (MW)
SS_WIND_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all wind semi-scheduled generating units (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.8.8 New table: PDPASA_FNM_ZONESOLUTION

Comment	Create this table in the PDPASA_FNM db, so that Zone Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	Create this table in the PDPASA_FNM db, so that Zone Solution from the PASA engine can be stored
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>RUNTYPE</u> , ZONEID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME <u>RUNTYPE</u>	VARCHAR2(20) DATE	Yes	<u>Run Type (BASE, RELIABILITY, WARNING)</u> End date time of the interval
RUNTYPE <u>INTERVAL_DATETIME</u>	DATE <u>VARCHAR2(20)</u>	Yes	End date time of the interval <u>Run Type (BASE, RELIABILITY, WARNING)</u>
ZONEID	VARCHAR2(30)	Yes	Zone identifier
REGIONID	VARCHAR2(20 10)	No	Region identifier of the Region containing this Zone
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists and this Zone contains the Regional Reference Node LORCONDITION = 3 if deficit in BASE run LORCONDITION = 2 if deficit in RELIABILITY run LORCONDITION = 1 if deficit in WARNING run

Field name	Data type	Primary key	Comment
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit exists and this Zone does not contain the Regional Reference Node DEFICITCONDITION = 3 if deficit in BASE run DEFICITCONDITION = 2 if deficit in RELIABILITY run DEFICITCONDITION = 1 if deficit in WARNING run
<u>INITIALDEMAND</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)</u>
<u>DEMAND UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (increase) to most probable Demand Forecast (MW)</u>
<u>SCHED GEN UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (decrease) to Scheduled Generation Bid Max Avail (MW)</u>
<u>VRE GEN UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (decrease) to most probable VRE Forecast (MW)</u>
<u>SCHED GEN AUX LOAD</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Auxiliary Load adjustment to uncertainty-adjusted Bid MaxAvail of all scheduled generating units (MW)</u>
<u>ENERGYUNCONSTRAINED_CLEAREDUNCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from non energy-constrained resources (MW)
<u>ENERGYCONSTRAINED_CLEAREDCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from energy-constrained resources (MW)
CLEAREDNETINTERCHANGE	NUMBER(12,2)	No	Cleared Net Export (positive) or Net Import (negative) (MW)
SS_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled generating units (MW)
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled solar generating units (MW)
SS_WIND_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled wind generating units (MW)

Field name	Data type	Primary key	Comment
SPARECAPACITY	NUMBER(12,2)	No	Spare generation capacity = max(-0, Available Generation minus [-Cleared Generation minus Cleared Net Interchange-]) (MW)
CLEAREDSUPPLY	NUMBER(12,2)	No	Cleared Generation (MW)
CLEAREDLOSSES	NUMBER(12,2)	No	Cleared Grid Losses (MW)
CLEAREDDEMAND	NUMBER(12,2)	No	Cleared Demand (MW)
SUPPLYDEFICIT	NUMBER(12,2)	No	Supply Deficit at loads = Max(-0, Initial Demand <u>minus</u> - Cleared Demand-) where Cleared Demand = (Cleared Generation minus Cleared Losses minus Cleared Net Interchange) (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.7.94.8.9 New table: PDPASA_FNM_ZONESUMMARY

Comment	Create this table in the PDPASA_FNM db, so that Zone Summary from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 30 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, ZONEID
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
ZONEID	VARCHAR2(30)	Yes	Zone identifier
REGIONID	VARCHAR2(20)	No	Region identifier of the Region containing this Zone
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists and this Zone contains the Regional Reference Node LORCONDITION indicates the most severe condition: LORCONDITION = 3 if deficit in BASE run; else LORCONDITION = 2 if deficit in RELIABILITY run; else LORCONDITION = 1 if deficit in WARNING run
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain the Regional Reference Node. DEFICITCONDITION indicates the most severe condition: DEFICITCONDITION = 3 if deficit in BASE run; else DEFICITCONDITION = 2 if deficit in RELIABILITY run; else DEFICITCONDITION = 1 if deficit in WARNING run
DEMAND50	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast (MW)
INITIALDEMAND	NUMBER(12,2)	No	Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)
DEMAND_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable Demand Forecast (MW)
SCHED_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to Scheduled Generation Bid Max Avail (MW)

Field name	Data type	Primary key	Comment
VRE_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable VRE Forecast (MW)
DEMAND50_UNSCHEDED_GEN_AUX_LOAD	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast plus Aggregate Generation Forecast Auxiliary Load adjustment to Bid MaxAvail of all non-scheduled and exempt generation generating units (MW)
SCHED_SS_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled generating units, scheduled bidirectional units (Gen side) and semi-scheduled generating units, with latter capped at UIGF (MW)
UNSCHEDED_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_SS_GEN_PASAAVAIL	NUMBER(12,2)	No	Aggregate Bid PASAAvailability of all scheduled generating units and scheduled bidirectional units (Gen side) with a Bid Recall Period less than (Interval_DateTime minus Run_DateTime) plus UIGF for all semi-scheduled generating units (MW)
SCHED_LOAD_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled loads (MW)
SS_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all semi-scheduled generating units (MW)
SS_SOLAR_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all solar semi-scheduled generating units (MW)
SS_WIND_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all wind semi-scheduled generating units (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.9 Package: SETTLEMENT DATA

Results from a published Settlements Run. The settlement data and billing run data are updated daily between 6 am and 8 am 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



4.9.1 Modified table: SET NMAS RECOVERY

<u>Comment</u>	<u>SET NMAS RECOVERY sets out the NSCAS recovery data for payments other than testing This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.</u>
<u>Visibility</u>	<u>Private</u>
<u>Data volume</u>	<u>Medium</u>
<u>Trigger</u>	<u>Settlement Run</u>
<u>Participant file share location</u>	<u><#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport</u>
<u>Primary key (in order)</u>	<u>SETTLEMENTDATE, VERSIONNO, PERIODID, PARTICIPANTID, SERVICE, CONTRACTID, PAYMENTTYPE, REGIONID</u>
<u>Project</u>	<u>Shortening the Settlement Cycle</u>

Modified Column

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>SERVICE</u>	<u>VARCHAR(20)</u>	<u>No</u>	<u>The type of NSCAS service incl ISF Services. Current value values are:</u> <u>REACTIVE</u> <u>LOADSHED</u> <u>RESTART</u> <u>INERTIA, SYSTEM STRENGTH, TYPE1, TYPE2</u>
<u>CONTRACTID</u>	<u>VARCHAR(20)</u>	<u>No</u>	<u>The NMAS/ISF Contract Id</u>



4.9.2 Modified table: SET NMAS RECOVERY RBF

<u>Comment</u>	<u>SET NMAS RECOVERY RBF publishes the RBF for NSCAS non testing payments on a half hourly basis. This Table may also be used for NSCAS and Type 1 transitional services procured by AEMO under the ISF framework during 2025 and prior to the implementation of all system changes. During this time descriptions in these tables may not be correct.</u>
<u>Visibility</u>	<u>Public</u>
<u>Data volume</u>	<u>-</u>
<u>Trigger</u>	<u>Settlement Run</u>
<u>Participant file share location</u>	<u><#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReport</u>
<u>Primary key (in order)</u>	<u>SETTLEMENTDATE, VERSIONNO, PERIODID, SERVICE, CONTRACTID, PAYMENTTYPE, REGIONID</u>
<u>Project</u>	<u>Shortening the Settlement Cycle</u>

Modified Column

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>SERVICE</u>	<u>VARCHAR(20)</u>	<u>No</u>	<u>The type of NSCAS service incl ISF Services. Current value values are:</u> <u>REACTIVE</u> <u>LOADSHED</u> <u>RESTART</u> <u>INERTIA, SYSTEM STRENGTH, TYPE1, TYPE2</u>
<u>CONTRACTID</u>	<u>VARCHAR(20)</u>	<u>No</u>	<u>The NMAS/ISF Contract Id</u>



4.8.4.10 Package: STPASA_FNM

4.8.4.10.1 New table: STPASA_FNM_CASESOLUTION

Comment	Create this table in the STPASA_FNM db, so that Case Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
LORCONDITION	NUMBER(1,0)	No	LORCONDITION is only set if supply deficit exists in a Zone that contains the Regional Reference Node LORCONDITION indicates the most severe condition for the case: LORCONDITION = 3 if deficit in BASE run, else = 2 if deficit in RELIABILITY run, else = 1 if deficit in WARNING run, else 0

Field name	Data type	Primary key	Comment
DEFICITCONDITION	NUMBER(1,0)	No	DEFICITCONDITION is only set if supply deficit exists in a Zone that does NOT contain the Regional Reference Node DEFICITCONDITION indicates the most severe condition for the case: DEFICITCONDITION = 3 if deficit in BASE run, else = 2 if deficit in RELIABILITY run, else = 1 if deficit in WARNING run, else 0
BASE_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available
RELIABILITY_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available
WARNING_RUN_AVAILABLE	VARCHAR2(10)	No	YES = Available, NO = Not Available
PASAVERSION	VARCHAR2(30)	No	Version of the PASA solver used to solve this case
LASTCHANGED	DATE	No	Date time this record was created

4.8.24.10.2 New table: STPASA_FNM_CONSTRAINTSOLUTION

Comment	Create this table in the STPASA_FNM db, so that Constraint Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNTYPE, INTERVAL_DATETIME, RUNTYPE, CONSTRAINTID



Comment	Create this table in the STPASA_FNM db, so that Constraint Solution from the PASA engine can be stored
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME <u>RUNTYPE</u>	VARCHAR2(20) DATE	Yes	Run Type (BASE, RELIABILITY, WARNING) <u>End date time of the interval</u>
<u>INTERVAL_DATETIME</u> RUNTYPE	<u>DATE</u> VARCHAR2(20)	Yes	<u>End date time of the interval</u> Run Type (BASE, RELIABILITY, WARNING)
CONSTRAINTID	VARCHAR2(100)	Yes	Constraint identifier, either manual constraint (synonymous with GenConID) or thermal constraint created by PASA with format 'BASE_<BranchName> or '< <u>ContingencyID</u> < <u>Ctgid</u> >_<BranchName>'
MARGINALVALUE	NUMBER(20,5)	No	Constraint Marginal Value (\$/MW)
VIOLATIONDEGREE	NUMBER(<u>15,512,2</u>)	No	Constraint Violation Degree (MW)
LHS	NUMBER(<u>15,512,2</u>)	No	Constraint LHS (MW)
RHS	NUMBER(<u>15,512,2</u>)	No	Constraint RHS (MW)
LASTCHANGED	DATE	No	Date time this record was created



4.8.34.10.3 New table: STPASA_FNM_DUID_AVAILABILITY

Comment	Create this table in the STPASA_FNM db, so that DUID availability from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, <u>DUIDZONEID</u>
Project	STPASA Replacement project

New columns

Field-name	Data-type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
DUID	VARCHAR2(20)	Yes	NEM Dispatchable Unit Identifier
BID_TRADINGDATE	DATE	No	Trading Date of the energy bid
BID_OFFERDATETIME	DATE	No	Date Time that the energy bid was received
GENERATION_MAX_AVAILABILITY	NUMBER (12,6)	No	Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP

Field name	Data type	Primary key	Comment
GENERATION_PASA_AVAILABILITY	NUMBER (12,6)	No	PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit
<u>Project</u>	<u>STPASA Replacement project</u>		

New columns

<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
<u>RUN_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run</u>
<u>INTERVAL_DATETIME</u>	<u>DATE</u>	<u>Yes</u>	<u>End date time of the interval</u>
<u>DUID</u>	<u>VARCHAR2(20)</u>	<u>Yes</u>	<u>NEM Dispatchable Unit Identifier</u>
<u>BID_TRADINGDATE</u>	<u>DATE</u>	<u>No</u>	<u>Trading Date of the energy bid</u>
<u>BID_OFFERDATETIME</u>	<u>DATE</u>	<u>No</u>	<u>Date Time that the energy bid was received</u>
<u>GENERATION_MAX_AVAILABILITY</u>	<u>NUMBER (12,3)</u>	<u>No</u>	<u>Available Capacity for a scheduled generating unit, semi-scheduled generating unit, BDU (Gen side), WDR or MNSP</u>
<u>GENERATION_PASA_AVAILABILITY</u>	<u>NUMBER (12,3)</u>	<u>No</u>	<u>PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit</u>
GENERATION_RECALL_PERIOD	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled generating unit, BDU (Gen side), WDR or MNSP. Null for a semi-scheduled generating unit
LOAD_MAX_AVAILABILITY	NUMBER (12, 3 ⁶)	No	Available Capacity for a scheduled load or BDU (Load side)



<u>Field name</u>	<u>Data type</u>	<u>Primary key</u>	<u>Comment</u>
LOAD_PASA_AVAILABILITY	NUMBER (12, 3 6)	No	PASA Availability for a scheduled load or BDU (Load side)
LOAD_RECALL_PERIOD	NUMBER (8,3)	No	Recall Period associated with the PASA Availability for a scheduled load or BDU (Load side)
LASTCHANGED	DATE	No	Date time this record was created

4.8.44.10.4 New table: STPASA_FNM_INTERCONNECTORSOLN

Comment	Create this table in the STPASA_FNM db, so that Interconnector Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>RUNTYPE</u> , INTERCONNECTORID
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME RUNTYPE	VARCHAR2(20) DATE	Yes	Run Type (BASE, RELIABILITY, WARNING) End date time of the interval
RUNTYPE INTERVAL_DATETIME	DATE VARCHAR2(20)	Yes	End date time of the interval Run Type (BASE, RELIABILITY, WARNING)
INTERCONNECTORID	VARCHAR2(10)	Yes	Interconnector Identifier
CLEAREDFLOW	NUMBER(12,2)	No	Cleared Interconnector flow (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.8.54.10.5 New table: STPASA_FNM_INTERZONALSOLUTION

Comment	Create this table in the STPASA_FNM db, so that Interzonal Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, RUNTYPE , INTERVAL_DATETIME, INTERZONALCONNECTORID RUNTYPE , INTERZONALID
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME RUNTYPE	VARCHAR2(20) DATE	Yes	Run Type (BASE, RELIABILITY, WARNING) End date time of the interval
RUNTYPE INTERVAL_DATETIME	DATE VARCHAR2(20)	Yes	End date time of the interval Run Type (BASE, RELIABILITY, WARNING)
INTERZONALCONNECTORID INTERZONALID	VARCHAR2(50)	Yes	InterzonalConnector Interzonal Identifier, <FromZoneID> <ToZoneID>
FROMZONEID	VARCHAR2(30)	No	FromZoneID of the InterZonalConnectorID InterZonalID
TOZONEID	VARCHAR2(30)	No	ToZoneID of the InterZonalConnectorID InterZonalID
CLEAREDFLOW	NUMBER(12,2)	No	Cleared Interzonal flow (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.8.64.10.6 New table: STPASA_FNM_REGIONSOLUTION

Comment	Create this table in the STPASA_FNM db, so that Region Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	Create this table in the STPASA_FNM db, so that Region Solution from the PASA engine can be stored
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>RUNTYPE</u> , REGIONID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME <u>RUNTYPE</u>	<u>VARCHAR2(20)</u> DATE	Yes	<u>Run Type (BASE, RELIABILITY, WARNING)</u> End date time of the interval
RUNTYPE <u>INTERVAL_DATETIME</u>	<u>DATE</u> VARCHAR2(20)	Yes	<u>End date time of the interval</u> Run Type (BASE, RELIABILITY, WARNING)
REGIONID	VARCHAR2(<u>20</u> 40)	Yes	Region Identifier
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists in the Zone for this Region that contains its Regional Reference Node LORCONDITION = 3 if deficit in BASE run LORCONDITION = 2 if deficit in RELIABILITY run LORCONDITION = 1 if deficit in WARNING run
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain its Regional Reference Node DEFICITCONDITION = 3 if deficit in BASE run DEFICITCONDITION = 2 if deficit in RELIABILITY run DEFICITCONDITION = 1 if deficit in WARNING run

Field name	Data type	Primary key	Comment
INITIALDEMAND	NUMBER(12,2)	No	Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)
DEMAND_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable Demand Forecast (MW)
SCHED_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to Scheduled Generation Bid Max Avail (MW)
VRE_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable VRE Forecast (MW)
<u>SCHED_GEN_AUX_LOAD</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Auxiliary Load adjustment to uncertainty-adjusted Bid MaxAvail of all scheduled generating units (MW)</u>
<u>ENERGYUNCONSTRAINED_CLEAREDUNCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from non energy-constrained resources (MW)
<u>ENERGYCONSTRAINED_CLEAREDCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from energy-constrained resources (MW)
CLEAREDNETINTERCHANGE	NUMBER(12,2)	No	Cleared Net Export (positive) or Net Import (negative) (MW)
SS_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled generating units (MW)
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled solar generating units (MW)
SS_WIND_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled wind generating units (MW)
SPARECAPACITY	NUMBER(12,2)	No	Spare Generation Capacity = max(-0, Available Generation minus [-Cleared Generation minus Cleared Net Interchange-]) (MW)
CLEAREDSUPPLY	NUMBER(12,2)	No	Cleared Generation (MW)
CLEAREDLOSSES	NUMBER(12,2)	No	Cleared Grid Losses (MW)



Field name	Data type	Primary key	Comment
CLEAREDDEMAND	NUMBER(12,2)	No	Cleared Demand (MW)
SUPPLYDEFICIT	NUMBER(12,2)	No	Supply Deficit at loads = Max(-0, Initial Demand minus- Cleared Demand-) where Cleared Demand = (Cleared Generation minus Cleared Losses minus Cleared Net Interchange) (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.8.74.10.7 New table: STPASA_FNM_REGIONSUMMARY

Comment	Create this table in the STPASA_FNM db, so that Region Summary from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTRFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, REGIONID
Project	STPASA Replacement project



New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
REGIONID	VARCHAR2(2010)	Yes	Region identifier
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists in the Zone for this Region that contains its Regional Reference Node LORCONDITION indicates the most severe condition: LORCONDITION = 3 if deficit in BASE run; else LORCONDITION = 2 if deficit in RELIABILITY run; else LORCONDITION = 1 if deficit in WARNING run
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain its Regional Reference Node. DEFICITCONDITION indicates the most severe condition: DEFICITCONDITION = 3 if deficit in BASE run; else DEFICITCONDITION = 2 if deficit in RELIABILITY run; else DEFICITCONDITION = 1 if deficit in WARNING run
DEMAND50	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast (MW)
DEMAND50_UNSED_GEN	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast plus Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_GEN_AUX_LOAD	NUMBER(12,2)	No	Aggregate Auxiliary Load adjustment to Bid MaxAvail of all scheduled generating units (MW)
SCHED_SS_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled generating units, scheduled bidirectional units (Gen side) and semi-scheduled generating units, with latter capped at UIGF (MW)

Field name	Data type	Primary key	Comment
UNSCHED_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_SS_GEN_PASAAVAIL	NUMBER(12,2)	No	Aggregate Bid PASAAvailability of all scheduled generating units and scheduled bidirectional units (Gen side) with a Bid Recall Period less than (Interval_DateTime minus Run_DateTime) plus UIGF for all semi-scheduled generating units (MW)
SCHED_LOAD_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled loads (MW)
SS_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all semi-scheduled generating units (MW)
SS_SOLAR_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all solar semi-scheduled generating units (MW)
SS_WIND_UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all wind semi-scheduled generating units (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.8.84.10.8 New table: STPASA_FNM_ZONESOLUTION

Comment	Create this table in the STPASA_FNM db, so that Zone Solution from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	Create this table in the STPASA_FNM db, so that Zone Solution from the PASA engine can be stored
Primary key (in order)	RUN_DATETIME, <u>RUNTYPE</u> , INTERVAL_DATETIME, <u>RUNTYPE</u> , ZONEID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME <u>RUNTYPE</u>	<u>VARCHAR2(20)</u> DATE	Yes	<u>Run Type (BASE, RELIABILITY, WARNING)</u> End date time of the interval
RUNTYPE <u>INTERVAL_DATETIME</u>	<u>DATE</u> VARCHAR2(20)	Yes	<u>End date time of the interval</u> Run Type (BASE, RELIABILITY, WARNING)
ZONEID	VARCHAR2(30)	Yes	Zone identifier
REGIONID	VARCHAR2(20 10)	No	Region identifier of the Region containing this Zone
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists and this Zone contains the Regional Reference Node LORCONDITION = 3 if deficit in BASE run LORCONDITION = 2 if deficit in RELIABILITY run LORCONDITION = 1 if deficit in WARNING run

Field name	Data type	Primary key	Comment
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit exists and this Zone does not contain the Regional Reference Node. DEFICITCONDITION = 3 if deficit in BASE run DEFICITCONDITION = 2 if deficit in RELIABILITY run DEFICITCONDITION = 1 if deficit in WARNING run
<u>INITIALDEMAND</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)</u>
<u>DEMAND UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (increase) to most probable Demand Forecast (MW)</u>
<u>SCHED GEN UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (decrease) to Scheduled Generation Bid Max Avail (MW)</u>
<u>VRE GEN UNCERTAINTY MARGIN</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Uncertainty Margin adjustment (decrease) to most probable VRE Forecast (MW)</u>
<u>SCHED GEN AUX LOAD</u>	<u>NUMBER(12,2)</u>	<u>No</u>	<u>Aggregate Auxiliary Load adjustment to uncertainty-adjusted Bid MaxAvail of all scheduled generating units (MW)</u>
<u>ENERGYUNCONSTRAINED_CLEAREDUNCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from non energy-constrained resources (MW)
<u>ENERGYCONSTRAINED_CLEAREDCONSTRAINEDCAPACITY</u>	NUMBER(12,2)	No	Cleared Generation from energy-constrained resources (MW)
CLEAREDNETINTERCHANGE	NUMBER(12,2)	No	Cleared Net Export (positive) or Net Import (negative) (MW)
SS_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled generating units (MW)

Field name	Data type	Primary key	Comment
SS_SOLAR_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled solar generating units (MW)
SS_WIND_CLEARED	NUMBER(12,2)	No	Cleared Generation from semi-scheduled wind generating units (MW)
SPARECAPACITY	NUMBER(12,2)	No	Spare generation capacity = max(-0, Available Generation minus [-Cleared Generation minus Cleared Net Interchange-]) (MW)
CLEAREDSUPPLY	NUMBER(12,2)	No	Cleared Generation (MW)
CLEAREDLOSSES	NUMBER(12,2)	No	Cleared Grid Losses (MW)
CLEAREDDEMAND	NUMBER(12,2)	No	Cleared Demand (MW)
SUPPLYDEFICIT	NUMBER(12,2)	No	Supply Deficit at loads = Max(-0, Initial Demand <u>minus</u> - Cleared Demand-) where Cleared Demand = (Cleared Generation minus Cleared Losses minus Cleared Net Interchange) (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.8.94.10.9 New table: STPASA_FNM_ZONESUMMARY

Comment	Create this table in the STPASA_FNM db, so that Zone Summary from the PASA engine can be stored
Visibility	Public
Data volume	Medium
Trigger	Every 60 minutes
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	Create this table in the STPASA_FNM db, so that Zone Summary from the PASA engine can be stored
Primary key (in order)	RUN_DATETIME, INTERVAL_DATETIME, ZONEID
Project	STPASA Replacement project

New columns

Field name	Data type	Primary key	Comment
RUN_DATETIME	DATE	Yes	Unique Timestamp Identifier for this run, identified by the first half hour ended interval of the run
INTERVAL_DATETIME	DATE	Yes	End date time of the interval
ZONEID	VARCHAR2(30)	Yes	Zone identifier
REGIONID	VARCHAR2(2019)	No	Region identifier of the Region containing this Zone
LORCONDITION	NUMBER(1,0)	No	Lack of Reserve Condition (LORCONDITION) > 0 if a deficit exists and this Zone contains the Regional Reference Node LORCONDITION indicates the most severe condition: LORCONDITION = 3 if deficit in BASE run; else LORCONDITION = 2 if deficit in RELIABILITY run; else LORCONDITION = 1 if deficit in WARNING run

Field name	Data type	Primary key	Comment
DEFICITCONDITION	NUMBER(1,0)	No	Deficit Condition (DEFICITCONDITION) > 0 if a deficit only exists in a Zone for this Region that does not contain the Regional Reference Node DEFICITCONDITION indicates the most severe condition: DEFICITCONDITION = 3 if deficit in BASE run; else DEFICITCONDITION = 2 if deficit in RELIABILITY run; else DEFICITCONDITION = 1 if deficit in WARNING run
DEMAND50INITIALDEMAND	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast (MW) Most probable Demand Forecast adjusted by Demand Uncertainty Margin (MW)
DEMAND_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable Demand Forecast (MW)
SCHED_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to Scheduled Generation Bid Max Avail (MW)
VRE_GEN_UNCERTAINTY_MARGIN	NUMBER(12,2)	No	Aggregate Uncertainty Margin adjustment to most probable VRE Forecast (MW)
DEMAND50_UNSCHEDESCHED_GEN_AUX_LOAD	NUMBER(12,2)	No	50% Probability of Exceedance demand forecast plus Aggregate Generation ForecastAuxiliary Load adjustment to Bid MaxAvail of all non-scheduled and exempt generationgenerating units (MW)
SCHED_SS_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled generating units, scheduled bidirectional units (Gen side) and semi-scheduled generating units, with latter capped at UIGF (MW)
UNSCHEDESCHED_GEN_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Generation Forecast of all non-scheduled and exempt generation (MW)
SCHED_SS_GEN_PASAAVAIL	NUMBER(12,2)	No	Aggregate Bid PASAAvailability of all scheduled generating units and scheduled bidirectional units (Gen side) with a Bid Recall Period less than (Interval_DateTime minus Run_DateTime) plus UIGF for all semi-scheduled generating units (MW)

Field name	Data type	Primary key	Comment
SCHED_LOAD_CAPACITYAVAIL	NUMBER(12,2)	No	Aggregate Bid MaxAvail of all scheduled loads (MW)
SS UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all semi-scheduled generating units (MW)
SS_SOLAR UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all solar semi-scheduled generating units (MW)
SS_WIND UIGF	NUMBER(12,2)	No	Aggregate 50% Probability of Exceedance Unconstrained Intermittent Generation Forecast (UIGF) of all wind semi-scheduled generating units (MW)
LASTCHANGED	DATE	No	Date time this record was created

4.9.11 Package: STPASA_SOLUTION

4.9.11.1 Modified table: STPASA_REGIONSOLUTION (comment changes only)

Comment	STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study. Note that the RELIABILITY_LRC and OUTAGE_LRC Run Types are no longer reported from 31 July 2025
Visibility	Public
Data volume	Medium
Trigger	Start of each STPASA run (every hour).
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports



Comment	STPASA_REGIONSOLUTION shows the results of the regional capacity, maximum surplus reserve and maximum spare capacity evaluations for each period of the study. Note that the RELIABILITY_LRC and OUTAGE_LRC Run Types are no longer reported from 31 July 2025
Primary key (in order)	INTERVAL_DATETIME, REGIONID, RUN_DATETIME, RUNTYPE
Project	ST PASA Procedure and Recall Period

Modified columns

Comment changes only

Field name	Data type	Primary key	Comment
AGGREGATEPASAAVAILABILITY	NUMBER(12,0)	No	Sum of PASAAVAILABILITY for all scheduled generating units and scheduled bidirectional units (Gen side) with a Recall_Period <= 24 hours plus the sum of Unconstrained Intermittent Generation Forecasts (UIGF) for all semi-scheduled generating units. For the RELIABILITY_LRC and OUTAGE_LRC runs, UIGF is the POE90 forecast. For the LOR Run, UIGF is the POE50 forecast. Note that the RELIABILITY_LRC and OUTAGE_LRC Run Types are discontinued from 31 July 2025. From March 2026, AGGREGATEPASAAVAILABILITY changes from that with Recall_Period <= 24 to that achievable by the relevant INTERVAL_DATETIME if recalled at the start of the run.



4.104.12 Package: SYSTEM_SECURITY_MANAGEMENT

4.10.14.12.1 New table: SSM_INDICATIVE_ROLLING_DUID

Comment	Indicative rolling DUID schedule provides notice of system security status to service providers/TNSP. The intent is to provide forewarning of possible enablement instruction that may be required
Visibility	Private
Data volume	Medium
Trigger	SSM Post Processing completion
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	<u>CONTRACT_ID</u> , <u>DUID</u> , <u>VERSION_DATETIME</u> , INTERVAL_DATETIME, <u>VERSION_DATETIME</u> , <u>DUID</u> , <u>CONTRACT_ID</u>
Project	Improving Security Frameworks

New columns

Field name	Data type	Primary key	Comment
VERSION_DATETIME	DATE	YES	Version date time
INTERVAL_DATETIME	DATE	YES	Interval date time
DUID	VARCHAR2(20)	YES	Dispatchable Unit Identifier



Field name	Data type	Primary key	Comment
CONTRACT_ID	VARCHAR2(20)	YES	Unique Contract Identifier used to create enablement.
DUID_PARTICIPANTID	VARCHAR2(20)	NO	Primary recipient (SSM Service Provider) of enablement instruction.
INSTRUCTION_ID	VARCHAR2(20)	NO	Unique Instruction Identifier. Null where not applicable.
DUID_STATUS	VARCHAR2(40)	NO	Scheduled pending, Scheduled approved, Instruction issued, Fulfilment, Available, Offline, Online, Outage
MIN_DISPATCH_MW	NUMBER(18,8)	NO	Minimum Dispatch Target required for DUID to enable the contract.
EQUIPMENT_TYPE	VARCHAR2(40)	NO	Dispatchable Unit resource (for example, GENERATOR, LOAD, BIDIRECTIONAL, SYNCHRONOUS CONDENSER).
LASTCHANGED	DATE	NO	Last changed date

4.10.24.12.2 New table: ~~SSM_INDICATIVE_ROLLING_RGN~~REGION

Comment	Indicative rolling Region schedule provides notice of system security status to service providers/TNSP. The intent is to provide the security strength status of a region
Visibility	Public
Data volume	Medium
Trigger	SSM Post Processing completion
Participant file share location	<#INTERFACE>\<#PARTICIPANTID>\IMPORT\REPORTS\CSVReports
Primary key (in order)	VERSION_DATETIME, INTERVAL_DATETIME, REGIONID REGION
Project	Improving Security Frameworks



New columns

Field name	Data type	Primary key	Comment
VERSION_DATETIME	DATE	YES	Version date time
INTERVAL_DATETIME	DATE	YES	Interval date time
REGIONID REGION	VARCHAR2(20)	YES	Region
REGION_STATUS	VARCHAR2(40)	NO	Secure, Resolved, Not Secure
DUID_COUNT_FIRM	NUMBER(4,0)	NO	Sum of firm units enabled for the region with confirmed enablement instruction(s) sent
DUID_COUNT_SPECULATIVE	NUMBER(43,0)	NO	Sum of proposed units enabled for the region each status line where enablement instruction(s) not sent applicable.
LASTCHANGED	DATE	NO	Last changed date

4.114.13 File interface changes

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription	-
BILLING_CONFIG	BILLINGCALENDAR	-	-	-	Modified	No	-
BILLING_RUN	BILLING	-	-	-	Modified	No	-
	BILLING_INIT	-	-	-	Modified	No	-
DISPATCH					Modified	No	

Package	File ID	Description	Batcher file masks	Frequency	Change	Auto-subscription	-
<u>GENERIC CONSTRAINT</u>	<u>PASA_CONTINGENCY</u>			<u>on change</u>	<u>New</u>		
SYSTEM_SECURITY_MANAGEMENT	SSM_FORECAST	-	-	-	New	Yes	-
STPASA_FNM	STPASA_FNM	-	-	Hourly	New	Yes	-
<u>PARTICIPANT REGISTRATION</u>	<u>PASA_ZONE_REGION</u>			<u>on change</u>	<u>New</u>	<u>Yes</u>	
	<u>PASA_INTERZONAL</u>			<u>on change</u>	<u>New</u>	<u>Yes</u>	
PDPASA_FNM	PDPASA_FNM	-	-	<u>30 minutes</u> Hourly	New	Yes	-

4.124.14 Participant interfaces changes

Package	Data model table	File ID	CSV report type	Change
BILLING_CONFIG	BILLINGCALENDAR	BILLINGCALENDAR	BILLING_CONFIG,BILLINGCALENDAR,3	Modified
BILLING_RUN	BILLINGRUNTRK	BILLING	BILLING,RUNTRK,6	Modified
	BILLINGRUNTRK	BILLING_INIT	BILLING,RUNTRK,6	Modified
<u>DISPATCH</u>	<u>NEGATIVE_RESIDUE</u>			<u>Modified</u>
SYSTEM_SECURITY_MANAGEMENT	SSM_INDICATIVE_ROLLING_DUID	SSM_FORECAST	-	New
	SSM_ INDICATIVE <u>INDICATIVE</u> _ROLLING_ RGN <u>REGION</u>	SSM_FORECAST	-	New

Package	Data model table	File ID	CSV report type	Change
STPASA_FNM	STPASA_FNM_CASESOLUTION	STPASA	-	New
	STPASA_FNM_CONSTRAINTSOLUTION	STPASA	-	New
	STPASA_FNM_DUID_AVAILABILITY	STPASA	-	New
	STPASA_FNM_INTERCONNECTORSOLN	STPASA	-	New
	STPASA_FNM_INTERZONALSOLUTION	STPASA	-	New
	STPASA_FNM_REGIONSOLUTION	STPASA	-	New
	STPASA_FNM_REGIONSUMMARY	STPASA	-	New
	STPASA_FNM_ZONESOLUTION	STPASA	-	New
	STPASA_FNM_ZONESUMMARY	STPASA	-	New
PDPASA_FNM	PDPASA_FNM_CASESOLUTION	PDPASA	-	New
	PDPASA_FNM_CONSTRAINTSOLUTION	PDPASA	-	New
	PDPASA_FNM_DUID_AVAILABILITY	PDPASA	-	New
	PDPASA_FNM_INTERCONNECTORSOLN	PDPASA	-	New
	PDPASA_FNM_INTERZONALSOLUTION	PDPASA	-	New
	PDPASA_FNM_REGIONSOLUTION	PDPASA	-	New
	PDPASA_FNM_REGIONSUMMARY	PDPASA	-	New
	PDPASA_FNM_ZONESOLUTION	PDPASA	-	New



Package	Data model table	File ID	CSV report type	Change
PARTICIPANT_REGISTRATION	PDPASA_FNM_ZONESUMMARY	PDPASA	-	New
	PASA_ZONE_REGION_MAPPING	PASA_ZONE_REGION	-	New
	PASA_INTERZONAL_MAPPING	PASA_INTERZONAL	-	New
<u>GENERIC CONSTRAINT</u>	<u>GENCONDATA</u>	<u>GENCONDATA TRG</u>	<u>GENCONDATA,,7</u>	<u>Modified</u>
_GENERIC_CONSTRAINT	PASA_CONTINGENCY_DEFINITION	PASA_CONTINGENCY	-	New

4.134.15 Discontinued reports

Data model table	File ID	Delivered in file	CSV report type	Replaced by
In alphabetical order		*_FILEID_LEGACY*.CSV	BILLING,BILLINGCPDATA,7	BILLING,BILLINGCPDATA,8

5 Reports

No updates to non-data model reports ~~in initial draft~~.

6 FAQs

Updates will be made after the FAQs from the February MSUG are available.

~~No FAQs in initial draft.~~

7 Implementation

7.1 Transition

See Participant Impact.

7.2 Upgrading

You can upgrade your pre-production or production Data Model environments once you receive the Data Model scripts. Applying the scripts sets up the new Data Model structure on your local database. You receive the same data until the new versions of fields, files, and reports are released into pre-production or production and you update your subscriptions.

For help, see:

- [Upgrading your DI environments](#)
- [Updating your subscriptions:](#)

7.3 Implications

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

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

7.4 Risks

See Participant Impact.

8 Terms

8.1 Rules Terms

You can find the following terms defined in the [National Electricity Rules \(NER\)](#) and the [Settlements Residue Auction Rules](#).

Term
AEMO
AEMO Clearing Account
AEMO Markets Portal
AEMO Website
Allocated Units
APA
Auction
Auction Participant
Auction Rules
Average cancellation price
Average purchase price
Bid File
Cancelled Units
Cancelled volume
Cash Security
Confidential Information
Directional interconnector
Linked Bid
Market Clearing Price

Term
Market Participants
Maximum Units
NEM
Notional Interconnector
Offer Database
Offer File
Offer Period
Offer Submission
Offered Units
Offers
Product
Prudential Approved Participant
Prudential Exposure
Region
Regional reference prices
Registered Participant
Relevant Quarter
Settlement residue auction
Settlement residue committee

Term
Settlement residue distribution agreement
SRDA Units
Trading Limit
Trading Margin
Trading Position
Unit Category
Units

8.2 Glossary

You can find a full list of AEMO glossary terms in [Industry Terminology](#) on AEMO's website.

Abbreviation/Term	Explanation
AEST	Australian Eastern Standard Time
B2B	Business-to-business
B2M	Business-to-market
EMMS	Electricity Market Management System; software, hardware, network and related processes to implement the wholesale energy market
FCAS	frequency control ancillary services
FTP	File transfer protocol
MSATS	Market Settlement and Transfer Solution for retail electricity
NER	National Electricity Rules
MW	Megawatt
Release	EMMS - Technical Specification – Data Model v5.7 - May 2026
Release Dates	Pre-production: Tuesday 14 April 2026? Production: Thursday 14 May 2026
TBC	To be confirmed

9 References

Guide to AEMO's e-Hub APIs: Provides details about using AEMO's e-Hub as an interface to communicate information with AEMO. It assists Wholesale electricity and gas participants developing their own APIs.

Guide to Information Systems: Provides guidance for *Registered Participants* and interested parties about AEMO's participant electricity market systems.

Guide to User Rights Management: Assists participant administrators (PAs) to use the user rights management functions in the MSATS Web Portal.

Retail Electricity Market Glossary and Framework: assist participants of the Retail Electricity Market to understand the overall framework. It also contains a list of terms used in the Retail Electricity Market Procedures and a full list of NEM procedures, guidelines, and documents.

9.1 Data interchange and data model resources

9.1.1 About

Information about setting up a Data Interchange environment: Data Interchange Help > [About Data Interchange](#).

9.1.2 Help

- [Data interchange online help](#)

9.1.3 Software

You can find Data Interchange software in the following locations:

- Data Interchange Help > [Software Releases](#).
- Releases directory on the participant file share: FTP to 146.178.211.2 > Data Interchange, pdrBatcher, pdrLoader, or pdrMonitor.

9.1.4 Reports

- Data Interchange Help > [Data Model Reports](#).

9.1.5 Releases

- Data Interchange Help > [Release Documents](#).

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