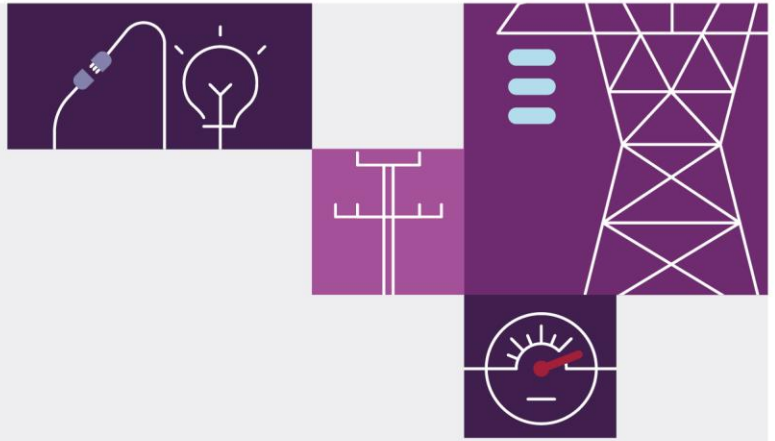# WEM PaSS 3.5
Release Notes

September 2024

Important Notice

Purpose

The Australian Energy Market Operator (AEMO) has prepared this document to provide information about the WEM PaSS 3.5 (Build 3.5-838-2) release as at the date of publication.

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Version Release History

Version	Release date	Changes
1.0	11/09/2024	Initial publication for the WEM PaSS Production Release

Document Approval Details

Name	Position	Date
Nicholas Nielsen	Manager, WA Settlements and Prudential	10/09/2024

Contents

1 Overview

1.1 Purpose and Scope

These are the release notes for the Wholesale Electricity Market Prudential and Settlement Services (WEM PaSS) 3.5 (Build 3.5-838-1). This release focused on fixing bugs in the IRCR and implementing a code change to increase internal performance.

1.2 Supporting documentation

The following document should be read in conjunction with these release notes.

Formulations:

   • WEM Individual Reserve Capacity Requirement Calculations Version 2.1

1.3 Version Summary

The changes in versions post deployment of this release are summarised in Table 1.

To view the current application, please navigate to **Help > About** in WEMS MPI.

Table 1 Version summary

Application	Current Version	New Version
WEM PaSS	3.4-837-1	3.5-838-1

1.4 Terms and abbreviations

The terms and abbreviations used in this document are outlined in Table 2.

Table 2 Terms and abbreviations

Term	Definition
AEMO	Australian Energy Market Operator
MKT	Market Trial
PaSS	Prudential and Settlement Service
UI	User Interface
WA	Western Australia
WEMS	Wholesale Electricity Market System, also refer to the monolith WA Market System application which hosts WEMS MPI, Engine, and Manager

2 IRCR

As part of WEM Reform implementation, the preliminary calculations for the Individual Reserve Capacity Requirement (IRCR) were moved to the PaSS application. The preliminary calculations are outlined in Section 3 of the WEM Individual Reserve Capacity Requirement Calculations document published on the AEMO Website.

The following changes relate to the IRCR preliminary calculations.

2.1 NewMeter_Flag

A bug was identified with the implementation of the NewMeter_Flag(f, m) which identifies whether an interval meter was registered with AEMO for all of the 12 Peak SWIS Trading Intervals for the relevant Hot Season, as required by Appendix 5 of the WEM Rules.

The existing implementation determines whether an interval meter was registered with AEMO by identifying whether meter data exists for the first of the 12 Peak SWIS Trading Intervals of the relevant Hot Season.

An investigation found instances where nulls (i.e. non-existent data) were being incorrectly interpreted as zeroes (i.e. existing data), resulting in an incorrect NewMeter_Flag.

The updated solution uses a NMI's earliest generation (B) or consumption (E) channel commencement date, as recorded in AEMO's metering system, to determine whether a Facility was registered with AEMO by a given date.

For any impacted interval meters, Market Participants will see the correct MEDIAN4 or MEDIAN12 value used in the next IRCR adjustment.

2.2 OwnershipFlag_PF_D

AEMO must determine the number of full Trading Days an interval meter was registered to a Market Participant in the relevant Trading Month, as required by Appendix 5 of the WEM Rules.

AEMO has identified an implementation issue impacting the calculation of the OwnershipDays_PF_D(p,f,d) flag for a NMI in a Trading Month when that NMI is new or experiences ownership churn during the Trading Month.

For any impacted interval meters, Market Participants will see the correct OwnershipDays(p, f, m) calculated in the next IRCR adjustment.

3 Settlement Details CSV

The Settlement Statement Details CSV download, found on WEMS MPI, does not handle Network Contingency (NRisk_NC_DI) scopes that contain commas: the comma splits the Network Contingency into two fields and displays it across multiple cells. This has been resolved: the Scope for the Network Contingency is now displayed in a single field.

4 Resolved Issues

In addition to the functionality above, the following issues have been resolved in this release.

Table 3 Resolved Issues

Reference	Summary	Resolution
● ADD PRUD-170	Settlement details CSV download does not handle Network Contingency scopes that contain commas	Refer to Section 3 of this document.
● ADD PRUD-164, PRUD-166	IRCR NewMeter_Flag is calculated incorrectly and makes incorrect assumptions	Refer to Section 2 of this document.
● ADD PRUD-169	IRCR OwnershipFlag_PF_D is calculated incorrectly	Refer to Section 2 of this document.
● ADD PRUD-168	IRCR set AGGNMI is calculated incorrectly	Updated the implementation off AGGNMI(d) to exclude objects in set NDL_WEMS(d) which removes unexpected outcomes when calculating the NewMeter_Flag for NMIs in both set NDL_WEMS(d) and set AGG(d).
●INT PRUD-165	Investigate and resolve issues with IRCR certification tests	Changed the RCM/PaSS library dependency and resolved certification tests.
●INT PRUD-157	Improve retrieval of NMI Timeseries data in PaSS	Implemented parallel importing of NMI Timeseries data into PaSS.
● INT PRUD-104	Use the most recent SOMS_G_I to determine 4/12 Peak SWIS Trading Intervals	Updated the A2A API to return the most recent SOMS_G_I data for determination of the 4/12 Peak SWIS Trading Intervals.
● INT PRUD-160	Logs are inadequate for loss-factor metering-standing-data issues	Updated the logging in PaSS to provide more detailed information when a NMI loss-factor validity issue is detected.

Table 4 Status Legend

Status	
● INT	Internal AEMO changes. No impact to Market Participants.
●ADD	Additional functionality. Market Participants awareness only.
●CHG	Change to Market Participant functionality. Needs Market Participant attention.