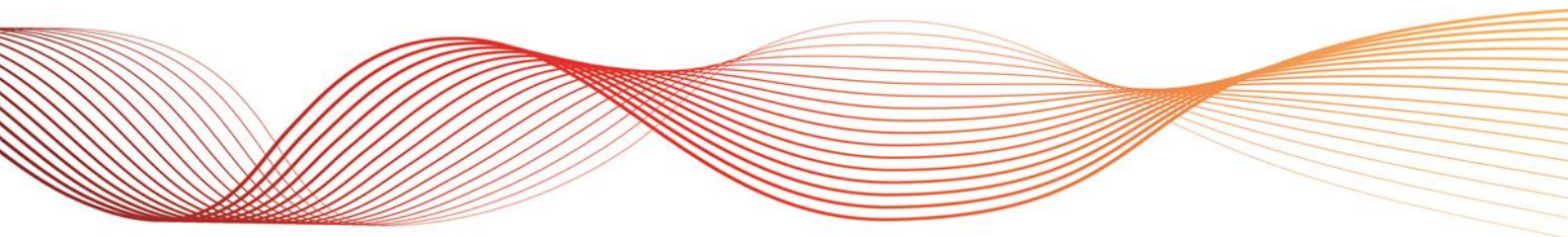




# WEMS 3.23 AND WEMS: RCM 1.4 RELEASE NOTES

Published: **November 2017**





# IMPORTANT NOTICE

## Purpose

The Australian Energy Market Operator has prepared this document to provide information about the Wholesale Electricity Market System (WEMS) 3.23 (Build 3.23-1336-1) and RCM 1.4 (Build 2366-2) releases, as at the date of publication.

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## VERSION RELEASE HISTORY

Version	Effective Date	Summary of Changes
1.0	13/11/2017	Document Creation

## DOCUMENT APPROVAL

Name and Position	Date
Neetika Kapani A/Group Manager, WA Markets	13/11/2017



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# 1. INTRODUCTION

These are the release notes for Wholesale Electricity Market System (**WEMS**) 3.23 (Build 1336-1) and RCM Release 1.4 (Build 2366-2).

This WEMS Release includes settlement system changes required to support the Reserve Capacity Mechanism (**RCM**) reforms which became effective 1 October 2017. These changes were introduced through the Wholesale Electricity Market Amending Rules 2016 made by the Minister under regulation 7(4) of the Electricity Industry (Wholesale Electricity Market) Regulations 2004 (**2016 WEM Amending Rules**) as published in the Government Gazette on 31 May 2016.

## Background

Prior to this release, AEMO used the POMAX Settlement and Metering applications for all WEM settlement calculations. These applications are discrete software components provided to AEMO by Brady PLC. AEMO does not have technical control of these software components and they are subject to support arrangements provided by Brady PLC.

The 2016 WEM Amending Rules provided an opportunity for AEMO to internalise a number of core functions currently performed in POMAX Settlements and align with the AEMO technical stack. It is estimated that at the completion of the RCM3 project, 30-40% of the WEM settlement functions will be performed independent of POMAX Settlements.

The settlement calculations associated with the RCM are now performed as part of the WEMS: RCM system.

## Supporting Documentation

The following documents have been updated for this release and should be read in conjunction with these release notes:

- 1) WEMS Report and Web Service Specification

This document is available on AEMO's website at

<http://www.aemo.com.au/Electricity/Wholesale-Electricity-Market-WEM/Participant-information/Guides-and-useful-information>.

- 2) Reserve Capacity Calculation Specification is available in WEMS MPI.

Useful background information and a high level summary were presented at RCM Settlement Technical Update in October 2017:

- 3) Presentation and meeting outcomes from the RCM Settlement Technical Update in October 2017 are available here: <https://www.aemo.com.au/Stakeholder-Consultation/Industry-forums-and-working-groups/WA-Forums/WAMRP-Reserve-Capacity-Mechanism-Forum>

## WEMS and RCM Version Summary

The table below summarises the changes in the version after this release has been deployed.

Application	Current Version	New Version
WEMS	3.22 (Build 1297-5)	3.23 (Build 1336-1)
RCM	1.3 (Build 2272-1)	1.4 (Build 2366-2)

To view the current version of both applications, please navigate to Help > About in the MPI.



## 2. NEW FUNCTIONALITY

This section details the new functionality which will be delivered in this WEMS and WEMS: RCM Release.

### 2.1 Reserve Capacity Calculation Specification

The Settlement calculations associated with the Reserve Capacity Mechanism will now be performed as part of the WEMS: RCM system through this release. As part of this release, the RCM Calculation Specification (**RC-CS**) has been created to define the outputs and variables used in the WEMS: RCM system. This document replaces the Reserve Capacity sections of the previous Wholesale Electricity Market System Product Configuration Specification (**WEMS-PCS**) which has been end dated. While some variable names remain the same, a number of changes have been made to align with the terminology in the WEM Rules.

AEMO has made the following documents available in the WEMS MPI under the Settlements, Download Files menu:

- For initial and adjustment Non-STEM Settlements for Trading Months from October 2017 onwards the new RC-CS and the the updated WEMS-PCS end dating the Reserve Capacity variables; and
- For initial and adjustment Non-STEM Settlement Statements for Trading Months up to and including September 2017, the current WEMS-PCS.

### 2.2 Statements

Market Participants will continue to access Settlement Statements through the Settlement Portal and through web services. For more information in relation to this web service, please refer to the WEMS Report Specification document available from AEMO's website.

For all initial and adjustment Non-STEM Settlement Statements for Trading Months from October 2017 onwards:

- The monthly Ancillary Services, Market Fees and Reconciliation Settlement Statements and daily Balancing Settlement Statement, as generated by POMAX, are unchanged.
- The existing Reserve Capacity Settlement Statement generated by POMAX is replaced by a Statement generated by the WEMS: RCM system which aligns with variables as defined in the RC-CS. The RC-CS is discussed in further detail in section 2.1. The format and layout of this Statement aligns with previous Statements.
- A new file naming convention will be applied for Statements.

Example *RCM\_F\_ALCOA\_2017-08-31.csv*

For all initial and adjustment Non-STEM Settlement Statements for Trading Months up to and including September 2017:

- All Settlement Statements as generated by POMAX, including the monthly Reserve Capacity Settlement Statement are unchanged.

### 2.3 Participant Information Report (PIR)

Market Participants will continue to access PIRs through the Settlement Portal and through web services. For more information in relation to this web service, please refer to the WEMS Report Specification document available from AEMO's website.



For all initial and adjustment Non-STEM Settlement PIRs for Trading Months from October 2017 onwards:

- The daily PIRs, currently generated by POMAX will be updated to remove all variables related to the Reserve Capacity settlement segment. The format and layout of these PIRs remain unchanged.
- A new Reserve Capacity PIR will be generated by the WEMS: RCM system and align with variables as defined in the RC-CS. This will include an additional CSV file containing the Reserve Capacity variables for the entire Trade Month by Trade Day. The format and layout of this PIR aligns with existing PIR.
- A new file naming convention will be applied for Statements.

Example *RCM\_PIR\_ALCOA\_2017-08-31.csv*

For all initial and adjustment Non-STEM Settlement PIRs for Trading Months up to and including September:

- All PIRs as generated by POMAX remain unchanged.

## 2.4 Settlement Portal

The WEMS Settlement Portal has been updated in this release to accommodate changes to the Statements and PIR associated with the new RCM Settlement calculations as outlined in sections 2.2 and 2.3.

The following screenshot shows the new additional dropdown (RCM), which allows Market Participants to download Statements associated with the RC segment of their settlement for NSTEM runs from Trade Months October 2017 onwards. The RC segment option remains available for Market Participants to download Statements associated with previous settlement runs and settlement adjustments.

The screenshot shows the WEMS Settlement Portal interface. At the top, there is a navigation bar with links: Home, Notifications, Energy Market, Reserve Capacity, Balancing, LFAS, Registration, Settlements, Reports, Configuration, Help, Logout. Below this is a sub-navigation bar with tabs: Invoices, Statements, PIRs, IRCR Logs. The main content area has a search and filter section with the following fields: Market: NSTEM, Created Date (selected), Statement Date, From: 31-10-2017, To: 06-11-2017, Participant: -- ALL --, Segment: -- ALL --, and a Filter button. Below this is a table with columns: File, Size, Segment, Trade Month, Statement Date, Adjustment #, Participant. The table contains several rows of data, all with 'RCM' in the Segment column. A dropdown menu is open for the Segment column, showing options: -- ALL --, AS, BS, CPD, DS, MF, NSTEM-SA, RC, RCM (highlighted with a red box), RS, STEM-SA, and STM.

Market Participants will be able to extract their Statements and PIRs through the Settlement Portal within the WEMS MPI and through web services.

## 2.5 Capacity Credit Allocation Withdraw

In response to participant feedback, AEMO has added a Withdraw function in relation to Capacity Credit Allocations. Providing a Capacity Credit Allocation window is open for a Trading Month, a Market Participant will be able to withdraw their single Capacity Credit Allocation for that month if a submission is made. Market Participants must then re-submit their Capacity Credit Allocation Submission. The



following screenshot shows a Market Participant’s screen with the ability to withdraw a Capacity Credit Allocation.

Home	CRC Application	Security	Trade Declaration	CDA	NTDL	<b>Capacity Allocation</b>	IRCR
2016 - 2017				2017 - 2018			

### Capacity Credit Allocations

Trading Month

November 2017

#### Allocations Submitted

Available Capacity Credits	79.166 MW	Allocation Window	01/11/2017 09:00 - 15/11/2017 17:00
Allocated (Offered)	30 MW		Closes in 5 days
Allocated (Accepted)	0 MW	Submitted On	10/11/2017 11:56:16
Unallocated	49.166 MW		

To	Allocated	Accepted	Status
10	-	-	SUBMITTED
20	-	-	SUBMITTED

## 2.6 Adjusted Required Level

The methodology for determining the adjusted Required Level remains unchanged under clause 4.26.1A (a) 3 of the WEM Rules for an Intermittent Non-Scheduled Generator (INSG). This calculation is detailed in the [Market Procedure: Reserve Capacity Security](#).

This release provides functionality for Market Participants to view the adjusted Required Level within the Facility Management screen for INSGs. The following screenshot shows the Facility Management screen displaying the adjusted Required Level for INSGs.

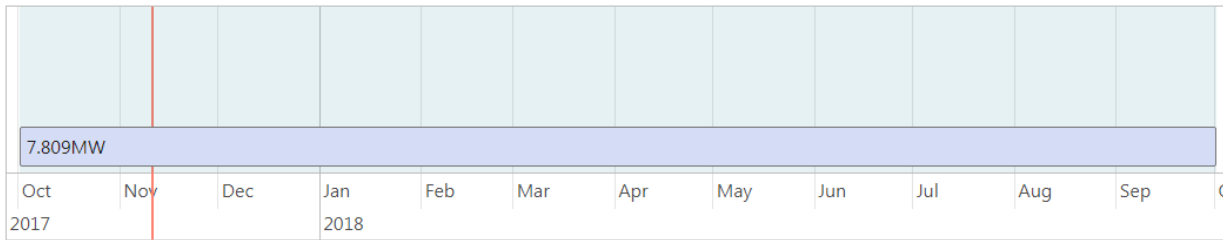




<b>Home</b>	CRC Application	Security	Trade Declaration	CDA	NTDL	Capacity Allocation	IRCR
2016 - 2017				<b>2017 - 2018</b>			

<b>INSG</b>	Commercial Operation	Effective 10/11/2017
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Capacity Credits: 8.709      EPOH: 0 hours (calculated: Oct 2017)  
 Adjusted Required Level: 1.207



Capacity Credit Timeline

CC	Effective From	Effective To	Note	Participant Reduction
8.709	01/10/2017 08:00	01/10/2018 08:00		



### 3. RESOLVED ISSUES

	Reference	Summary	Resolution
●	RCM-1218	RCM Capacity Credit Allocations does not adjust for accepted allocation within the Capacity Credit Allocation screen. Unallocated Capacity Credit quantity does not update after re-allocation window has closed.	Display has been enhanced to show Allocated quantity at both Submission and Acceptance stages. Additionally the Unallocated amount will at submission stage show the difference between Capacity Credits and Allocated Offered; and at Acceptance stage the difference between Capacity Credits and Allocated Accepted.
●	RCM-1222	RCM does not allow Market Participants to re-submit Capacity Credit Allocation, once a submission has been made.	Additional button to allow Market Participants to Withdraw all Capacity Credit Allocations and re-submit prior to window close.
●	WEMS-6678	WEMS MPI does not allow Market Participants to upload the supporting documentation (in this case, the "Environmental approvals" field) for their CRC submission. There was no accompanying error messages to notify Market Participants that the upload was unsuccessful.	Field validations to ensure successful upload of supporting documentation for a Market Participant's CRC submission are now in place.

#### Status

- Internal changes
- Minimal or no impact to Market Participants
- Needs Market Participants' attention. Potentially requires system or operational procedure changes



# ABBREVIATIONS

## Abbreviations

Abbreviation	Expanded name
2016 WEM Amending Rules	Wholesale Electricity Market Amending Rules 2016 made by the Minister under regulation 7(4) of the Electricity Industry (Wholesale Electricity Market) Regulations 2004 as published in the Government Gazette on 31 May 2016
AEMO	Australian Energy Market Operator
CRC	Certified Reserve Capacity
INSG	Intermittent Non-Scheduled Generator
PIR	Participant Information Report
RC-CS	Reserve Capacity Calculation Specification: Addendum to the WEMS-PCS that includes the new RCM Settlement variables.
RCM	Reserve Capacity Mechanism
WEM Rules	Wholesale Electricity Market Rules
WEMS Release	WEMS 3.22 (Build 1297-5) and RCM 1.3 (Build 2272-1 releases
WEMS	Wholesale Electricity Market System
WEMS-PCS	Wholesale Electricity Market System Product Configuration Specification