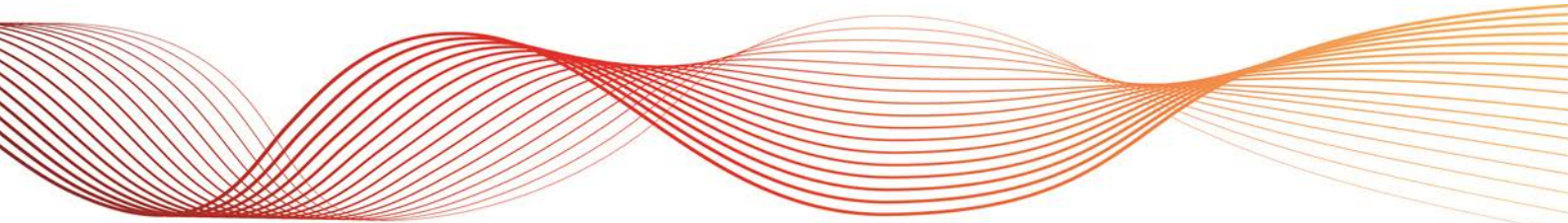




WEMS 3.17 (BUILD 1149-11) RELEASE NOTES

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IMPORTANT NOTICE

Purpose

The Australian Energy Market Operator has prepared this document to provide information about the Wholesale Electricity Market System (WEMS) 3.17 (Build 1149-11) release, as at the date of publication.

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VERSION RELEASE HISTORY

Version	Effective Date	Summary of Changes
1.0	29/07/2016	Document Creation
1.1	1/08/2016	Fix details on System Operator and updated build version to 1149-11

DOCUMENT APPROVAL

Name and Position	Date
Martin Maticka Group Manager, Operations and Technology (WA)	26 July 2016



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1. INTRODUCTION

These are the release notes for WEMS 3.17 (Build 1149-11). This release includes a number of changes to AEMO's WA market systems driven by the WA State Government's Electricity Market Review (**EMR**). This release also addresses a number of important issues which are discussed in the sections below.

2. ELECTRICITY MARKET REVIEW: RESERVE CAPACITY MECHANISM

A number of changes relating to the Reserve Capacity Bilateral Trade processes have been included in this release. These are summarised in the sections below.

Reserve Capacity Bilateral Trade Processes

The following changes were made to the Reserve Capacity Bilateral Trade process responsible for ensuring that bilaterally traded quantities can meet the Reserve Capacity Requirement (Appendix 3 of Market Rules):

- The number of Availability Classes are reduced from 4 classes to 2 classes.
- Separate treatment of Demand Side Management (**DSM**) Capacity is incorporated into the calculation.
- Capacity Credits will not be assigned to a facility that declares a Special Price Arrangement (SPA) quantity in their Bilateral Trade Declaration (MR 4.20.5B(b)) without declaring a non-zero bilateral quantity (MR 4.20.5B(b)(1)).
- Updated administered price calculation to reflect the changes to the Reserve Capacity Price formula and the Benchmark Reserve Capacity Price terminology.

Reserve Capacity Bilateral Trade Declaration Submission Template

The Reserve Capacity Bilateral Trade Declaration CSV template includes the following amendments:

- Remove `capacity_block` column
- New `dsp_mw` column (MR 4.14.1(ca)) with the following validations:
 1. Demand Side Programmes (**DSP**) can only submit a value in the `dsp_mw` or `unavailable` columns.
 2. Non-DSP facilities are unable to submit a `dsp_mw` value.

The new Bilateral Trade Declaration CSV template has been made available from the submission page on the MPI. The XML submission option has been removed in this release and all submissions must be made using the CSV template.

Bilateral Trade Declaration Submission Validations

A number of Reserve Capacity Bilateral Trade Declaration submission validations have been updated or introduced in this release. The table below summarises these changes:

Error Code	Old Message	New Message
E6001	The sum ({0} MW) of the values for auction_mw ({1} MW), special_price_mw ({2} MW), bilateral_mw ({3} MW), and unavailable_mw ({4} MW) must equal the Certified Capacity MW value of {5} for block {6}	The sum ({0} MW) of the values for auction_mw ({1} MW), special_price_mw ({2} MW), bilateral_mw ({3} MW), and unavailable_mw ({4} MW) must equal the Certified Capacity MW value of {5} for facility {6} and capacity year {7}
E6002	Only one block can be submitted for facility_name {0}	(deleted)



Error Code	Old Message	New Message
E6021	Special price MW exceeds the approved SPA MW quantity for participant {0}, facility {1}, capacity year {2} and block {3}	Special price MW exceeds the approved SPA MW quantity for participant {0}, facility {1} and capacity year {2}
E6022	Special price MW plus Bilateral MW quantities must exceed the approved SPA MW quantity for participant {0}, facility {1}, capacity year {2} and block {3}	Special price MW plus Bilateral MW quantities must exceed the approved SPA MW quantity for participant {0}, facility {1} and capacity year {2}
E6023	Special price MW lookup failed for participant {0}, facility {1}, capacity year {2} and block {3}	Special price MW lookup failed for participant {0}, facility {1} and capacity year {2}
E6024	Submission File Invalid: Duplicate submissions for facility {0} and capacity year {1} and capacity block {2}	Submission File Invalid: Duplicate submissions for facility {0} and capacity year {1}
E6025	{0} facility not certified for capacity year {1} and block {2}	{0} facility not certified for capacity year {1}
E6031	New validation (For DSP only)	Auction MW must be empty or 0 for facility {0} and capacity year {1}
E6032	New validation (For DSP only)	Bilateral MW must be empty or 0 for facility {0} and capacity year {1}
E6033	New validation (For DSP only)	Special Price MW must be empty or 0 for facility {0} and capacity year {1}
E6034	New validation (For DSP only)	DSP MW must be greater than or equal to 0 for facility {0} and capacity year {1}
E6035	New validation (For DSP only)	DSP MW must be empty or 0 for facility {0} and capacity year {1}
E6036	New validation (For DSP only)	DSP MW not required when action is set to CANCEL
E6037	New validation (For DSP only)	The sum({0} MW) of values for unavailable_mw ({1} MW) and dsp_mw ({2} MW) must equal the Certified Capacity MW value of {3} for facility {4} and capacity year {5}

RCM_AppvBltDelcarations Report Changes (WEMS-3411)

This report (available on the MPI and through web services) provides details about the approved bilateral traded quantities in accordance with Appendix 3 of the Market Rules. The Approved BLT (MW) field, as shown in the screenshot below, has been updated to show both the approved bilateral quantities for non-DSP facilities and the DSP quantity for DSP facilities.



Home Notifications Energy Market Reserve Capacity Balancing LFAS Registration Settlements Reports Configuration Help Logout

woms

By Report: **By Trade Date**

Report: RCM_ApprvBIDeclarations

Description: Approved Reserve Capacity (Statel and DSP Declarations)

Parameters	View	Download
Max years	1	10
Earliest date	21/05/2006	21/05/2006

Start Year: Oct 2017

End Year: Oct 2017

View XML CSV

RCM_ApprvBIDeclarations

CAPACITY YEAR	FACILITY ID	FACILITY TYPE	FACILITY STATUS	CAPACITY BLOCK	AVAILABILITY CLASS	APPROVED CLASS	APPROVED BLT/DSP (HW)
2017		DSP	C	1	2	2	

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3. OTHER CHANGES

DSP Standing Data Changes

As a part of the EMR, there will be two changes to the standing data maintained by AEMO with the effect from 1 October 2016. Specifically, they will be:

- **DSP Telemetry** (*New field* - Appendix 1(h)(viii)): Captures details of the facility's telemetry capabilities.
- **DSP Minimum Notice Period** (*Validation* – MR 2.29.9A): Removes the validation preventing AEMO from registering DSPs with a minimum notice period required for dispatch which exceeds four hours.

All Market Customers with registered DSP's will need to provide details of the real-time telemetry capabilities of the Facility by 1 October 2016. Affected Market Customers are requested to update their Standing Data through the WEMS MPI no later than Monday 26 September 2016.

System Management / AEMO Integration (WEMS-6395)

To facilitate the transfer of System Management to AEMO, a new System Operator Rule Participant has been created in WEMS (WPSO).

Retirement of imowa.com.au URLs (WEMS-6418)

The following table summarises the retirement of URLs in this release. The valid URLs have been available to participants since November 2015.

Retired URL	Valid URL
wems.imowa.com.au	wems.aemo.com.au
wems-mkt.imowa.com.au	wems-mkt.aemo.com.au
wems-pte1.imowa.com.au	wems-pte1.aemo.com.au
wems-pte2.imowa.com.au	wems-pte2.aemo.com.au

Market Participants who use web services to participate in the WEM will need to ensure that the valid URLs are used.



4. RESOLVED ISSUES

	Reference	Summary	Problem
●	WEMS-6415	The Reports screen in the MPI does not display report description correctly.	The report parameters (earliest date and max years) are not displayed intermittently when a report is selected. Configuration has been updated to ensure the screen renders correctly.
●	WEMS-6384	Bilateral Trade Declaration submissions made after certification only accepts SPA quantities to 2 decimal places.	With the exception of the SPA quantity, all other quantities submitted by participants are specified. Although not explicitly specified by the rules, to ensure consistency, the SPA quantity submitted a participant's Bilateral Trade Declaration is now required to be specified to 3 decimal places.
●	WEMS-6380	STEM submission validation message incorrectly informs participants to contact the IMO rather than AEMO.	Validation message was not updated when the accountability to operate the WEM transferred to AEMO. All validation messages have been checked to ensure that participants are directed to contact AEMO.
●	WEMS-5972	The Reserve Capacity Bilateral Trade Declaration process incorrectly handles the mutually exclusive condition specified by MR 4.14.6(c).	Currently the Reserve Capacity Bilateral Trade Declaration processes prioritises a facility which submits a higher quantity to be bilaterally traded, even if it has a higher Certified Reserve Capacity (CRC). The Bilateral Trade Declaration process has been updated to ensure facilities with a higher CRC are prioritised irrespective of the quantity declared to be traded bilaterally.
●	WEMS-6300	The website field under Participant Information screen in the MPI has a character limit which prevents participants from accurately populating this field.	The character limit is insufficient for Market Participants to submit their full website address. The character limit has been raised from 20 to 80 characters.

Status

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



MEASURES AND ABBREVIATIONS

Abbreviations

Abbreviation	Expanded name
AEMO	Australian Energy Market Operator
BLT	Bilateral MW
CRC	Certified Reserve Capacity
CSV	Comma Separated Value
DSM	Demand Side Management
DSP	Demand Side Programme
EMR	Electricity Market Review
FTP	File Transfer Protocol
HTTP	Hypertext Transfer Protocol
IMO	Independent Market Operator
MPI	Market Participant Interface
MR	Market Rules
MW	Megawatts
RC	Reserve Capacity
RCM	Reserve Capacity Mechanism
SPA	Special Price Arrangement
STEM	Short Term Energy Market
URL	Uniform Resource Identifier
WEMS	Wholesale Electricity Market System
XML	EXtensible Markup Language



GLOSSARY

Term	Definition
Availability Class	Classification of Certified Reserve Capacity. Availability Class 1 represents all capacity which is available for dispatch for all Trading Intervals in a Capacity Year Availability Class 2 represents all other capacity that does not include Availability Class 1.
Benchmark Reserve Capacity Price	From 1 June 2016, in respect of a given Reserve Capacity Cycle, the price in clause 4.16.2 as revised in accordance with clause 4.16.
DSM Capacity	Capacity Credits assigned to a Demand Side Programme.
Special Price Arrangement	An arrangement under MR 4.21 whereby a Market Participant can secure a price for Reserve Capacity that may differ from the Reserve Capacity Price.