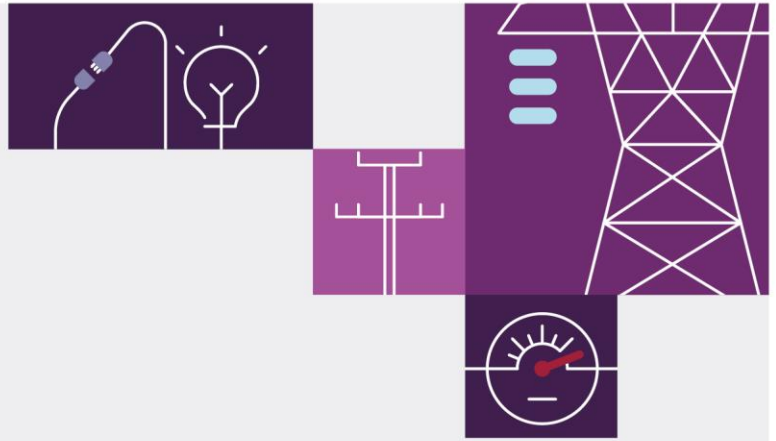


WEMS MPI User Guide: Real-time Market Submissions (RTMS)

August 2023

Version 1.0





Important notice

Purpose

AEMO has prepared this document to provide information about the Real-Time Market Submissions market systems support process available to Market Participants for the Wholesale Electricity Market System (WEMS), as at the date of publication. The purpose of this document is to support Market Participant Testing of the Real-Time Market Submissions system in WEMS. The content of this document is in draft form only, and a finalised version will be available in the WEMS User Guide in Market Trial and Production.

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Version control

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1.0	23 August 2023	Initial Release



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1 Introduction

The purpose of this document is to describe the functions and capabilities of the Wholesale Electricity Market System Market Participant Interface and act as a guide to users. The WEMS Market Participant Interface (WEMS MPI) is the medium between the Market Participant and AEMO to exchange and submit registration information, trading submissions, and facilitate the extraction of reports.

This document is intended for WEMS MPI users.

2 System Requirements

Please refer to the [Market Procedure: Data and IT Interface Requirements](#) for more information on the necessary technical details and standards, software and hardware specifications, and security standards required for Market Participants to operate in the Wholesale Electricity Market (WEM).

3 Accessing the System

The WEMS MPI is located at <https://wems.aemo.com.au/mpi>

Upon visiting the site, the MPI will require the user to authenticate with their WEMS RSA SecurID (Hard/ Soft) token before the user is able to access the MPI. The RSA SecurID hard token can be identified by the RSA SecurID dark blue and red logo with white writing (see Figure 1). The RSA SecurID soft token is accessible via the SecureID app.

New users must apply for WEMS access by contacting their Market Participant Administrator (MPA) as well as completing the WEMS Token Request Form. This form, along with the RSA Quick Reference Guide, is available from the MPI login page or from WA Market Operations at wa.operations@aemo.com.au.

New users must also be assigned the appropriate roles by their MPA to ensure they have the correct access privileges. Refer to the [Market Participant Administrator Guide](#) for more information.

RSA SecurID tokens are managed and issued by AEMO; however individual roles and user accounts are managed by each MPA.

Once logged in to WEMS MPI, users seeking to make or view RTM submissions can do so within the Real-Time Market menu (Figure 3).

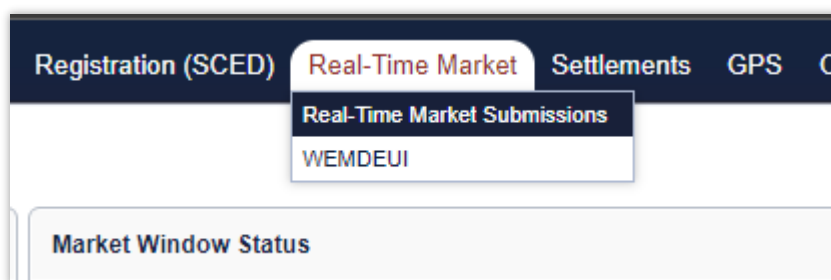
Figure 1 RSA SecurID token example



Figure 2 WEMS MPI login screen



Figure 3 Navigating to the RTMS interface



4 Real-Time Market Submissions

The RTMS application is used to make RTM Submissions and DSP Submissions and query past submissions. This section should be read in conjunction with the WEM Procedure: Real-Time Market Submissions and the WEMS Real-Time Market Submission Specification.

For assistance with Real-Time Market Submissions, contact Market Operations (WA) at wa.operations@aemo.com.au.

4.1 Making Submissions

This section describes how to make an RTM or DSP Submission through WEMS MPI UI. RTM or DSP Submissions may also be made using WEMS MPI API: refer to the Real-Time Market Submissions WEMS Specification for details.

RTM or DSP Submissions can be uploaded through the Upload History page. To access the Upload History page, select Real-Time Market > Real-Time Market Submissions, and select Upload History in the sidebar on the left.

The steps to upload an RTM or DSP Submission are:

1. Select "Upload File" in the top right of the Upload History page. This will open the submission upload window (Figure 4).
2. Select a submission file by:
 - 2.1. Dragging and dropping a submission file in to the "Drag & Drop File here" area in the upload window, or;
 - 2.2. Selecting "Choose a File" in the upload window, navigating to the desired submission file, and selecting it.
3. Once a selection has been made, the upload window will be updated (Figure 5). If the selected file is not a JSON file, a warning will be displayed, and the Upload button will be blocked (Figure 6): in this case, an alternative file must be selected to proceed.
4. If you wish to select a different file for submission, select the cross next to the selected file name to cancel that file and select an alternative file.
5. Optionally assign a Reference ID to the submission by entering the Reference ID in the input box (Figure 7). If assigned, the Reference ID will appear in the Upload History table (refer to section 4.2) to facilitate submission management by the Market Participant and assistance from AEMO, if needed.
6. If the submission is a DSP Submission, tick the box labelled "This is a DSP Withdrawal Profile" (Figure 7).
7. Select "Upload".
8. Once the submission has been received by AEMO, a window will appear stating that the file was successfully uploaded (Figure 8). Note that this message does not indicate whether the submission was valid or rejected.

- 9. To view the validation result:
 - 9.1. Select “Close” in the upload success window (Figure 8) to return to the Upload History page.
 - 9.2. Locate the submission in the Upload History table and check the submission Status. The submission Status may initially appear as “Submitted”. In this case, refresh the page to display the validation result once it is received from WEMS (Figure 9).
 - 9.3. Refer to section 4.2 Upload History for a list of possible submission Statuses and their meanings.

Figure 4 RTMS Upload Window – File Selection

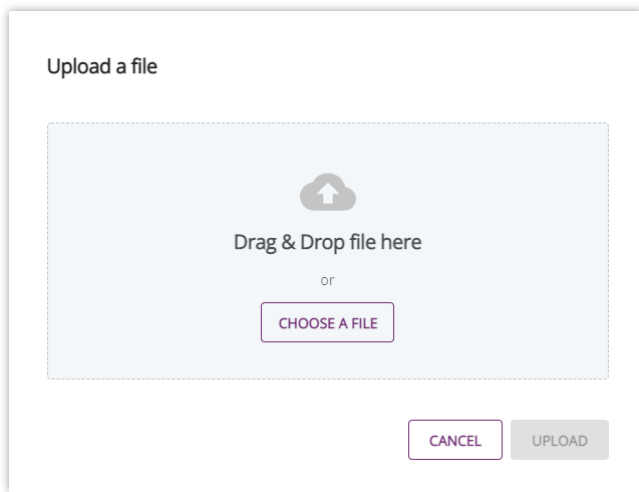


Figure 5 RTMS Upload Window – Reference ID and DSP Designation

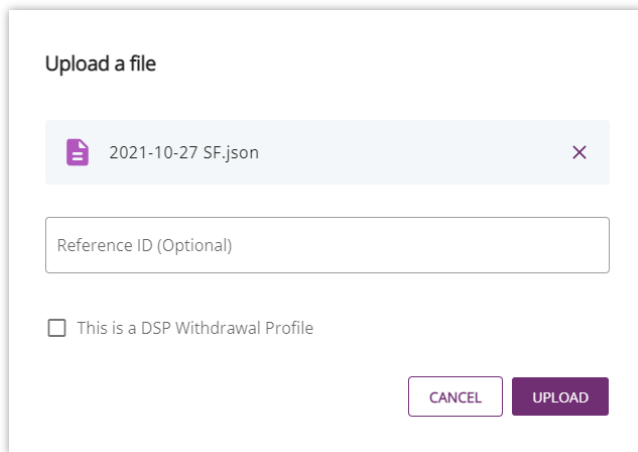


Figure 6 RTMS Upload Window – Invalid File Type

Figure 7 Inputting a Reference ID and Designating a DSP Submission

Figure 8 RTMS Upload Window – Success Message

Figure 9 Example Upload History Table during (top) and after completing (bottom) validation

Date & Time ↓	Reference	Uploaded By	File Type	Status
19 Oct 2021 09:16	2021-10-20 Standing DSP	AEMOTESTER	Standing	Submitted

Date & Time ↓	Reference	Uploaded By	File Type	Status
19 Oct 2021 09:16	2021-10-20 Standing DSP	AEMOTESTER	Standing	Valid

4.2 Upload History

To access the Upload History page, select Real-Time Market > Real-Time Market Submissions, then select Upload History in the sidebar on the left.

The Upload History page (Figure 10) lists the submissions made by the Participant (via UI or API) and summarises some key details of each submission, as listed in Table 1.

Figure 10 Real-Time Market Submissions Upload History Page

Date & Time ↓	Reference	Uploaded By	File Type	Status	Intervals	Market Services	Facilities	Intervals GC
28 Oct 2021 13:09		AEMOTESTER	Variation	Valid	4	1	2	0
28 Oct 2021 10:59		AEMOTESTER	Variation	Rejected	0	0	0	0

Table 1 Real-Time Market Submissions Upload History Table Contents

Column ID	Description
Date & Time	The date and time that the submission was received by AEMO
Reference	The Reference ID, if provided by the submitter
Uploaded By	The user who submitted the file
File Type	The submission type, with the following meanings: <ul style="list-style-type: none"> Variation – the submission is a Variation submission Standing – the submission is a Standing submission Invalid – the submission format was non-compliant, and the system could not determine whether the submission was a Standing or Variation Submission
Status	The status of the submission, with the following meanings: <ul style="list-style-type: none"> Valid – the submission was successfully validated and accepted by WEMS Rejected – the submission failed one or more validations and was rejected by WEMS Submitted – the submission was received by AEMO but validation is not yet complete Failed – validation not able to be completed due to a system error and the submission should be resubmitted
Intervals	The total number of Dispatch Intervals in the submission (counted separately for each Market Service/Facility combination included in submission) For a Standing Submission this will always be equal to the number of Dispatch Intervals in a week (counted separately for each Market Service/Facility combination included in submission)
Market Services	The distinct number of Market Services in the submission
Facilities	The distinct number of Facilities included in the submission
Intervals GC	The total number of Dispatch Intervals within Gate Closure in the submission (counted separately for each Market Service/Facility combination included in submission)



By default, the upload history table shows all submissions made within the previous 24 hours. To change the filter on this view:

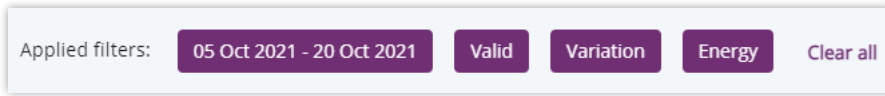
1. Select “Filters” in the top-right of the Upload History page to open the filter window (Figure 11).
2. Select filter criteria to be applied. Table 2 details the criteria which can be selected for filtering.
3. Select “Apply Filters” to apply the selected criteria to the upload history table.
4. The applied filters will be listed at the top of the Upload History page (Figure 12).
5. Applied filters can be edited by selecting “Filters” again, editing the selected filter criteria, and selecting “Apply Filters” again.
6. To clear all filters, select “Clear All” at the top of the Upload History page (Figure 12).

Figure 11 RTMS Upload History Filter Window

Table 2 RTMS Upload History Filter Options and Limits

Column ID	Description
From Date	The first submission date for the output
To Date	The last submission date for the output This must be within 30 days of the From Date and will be reset when From Date is changed
Facility	The Facility included in the submission
Uploaded By	<ul style="list-style-type: none"> The user who made the submission
Status	The status of the submission the output relates to (Failed, Rejected, Submitted, or Valid) <ul style="list-style-type: none"> When filtering for “Rejected”, “Submitted” or “Failed” submission status, filtering cannot also be performed on Facility or Market Service
File Type	The type of file the output relates to (Variation or Standing)
Market Service	The Market Service included in the submission (Energy or one of the FCESS markets)

Figure 12 Filters Applied to Upload History Table and Clearing Filters from the Table



To search for a submission by Reference ID:

1. Optionally apply a filter for the date range and any other specific categories in which you wish to search.
2. Type a search term in to the “Search by reference” box in the top-right of the Upload History page.
3. The upload history table will display submissions which meet the filter criteria and have a Reference ID that includes the search term (Figure 13). Note that the search term is not case sensitive and there are no wildcard characters.

Figure 13 RTMS Upload History Search by Reference Function

Date & Time ↓	Reference	Uploaded By	File Type	Status	Intervals	Market Services	Facilities	Intervals GC
25 Oct 2021 07:03	Test01_8	AEMOTESTER	Standing	Valid	2016	1	1	0
25 Oct 2021 07:00	Test01_7	AEMOTESTER	Variation	Valid	8	1	1	0
25 Oct 2021 06:59	Test01_6	AEMOTESTER	Variation	Valid	6	1	1	0
25 Oct 2021 06:57	Test01_5a	AEMOTESTER	Standing	Valid	6048	2	2	0
25 Oct 2021 06:56	Test01_05a	AEMOTESTER	Standing	Rejected	0	0	0	0

To view detailed information related to the processing of a submission, select a submission by clicking on it within the upload history table. This opens the detailed history window (Figure 14) which lists all the messages related to the submission. For details about the validation process and validation messages, refer to the WEMS Real-Time Market Submission Specification.

Figure 14 Submission Detailed History Window

Date & Time	Message code	Message type	Message
27 Oct 2021 10:14:39	SUB001	Info	File uploaded to AEMO Server - Starting File Processing
27 Oct 2021 10:14:40	C050	Warning	There are Gate Closure violations within the submission.
27 Oct 2021 10:14:40	SUC001	Info	Submission Processing is Completed Successfully.

The following additional information can be downloaded by selecting the menu button (Figure 17) in the rightmost column of the Upload History table:

- Submission File – a copy of the JSON file as submitted to WEMS
- Result File – a CSV file detailing the processing and validation results

Figure 15 Additional Submission Information Menu Button

Intervals	Market Services	Facilities	Intervals GC	
6048	2	2	0	⋮

4.3 Consolidated Submissions

To access the Consolidated Submissions window, select **Real-Time Market > Real-Time Market Submissions**, then select **Consolidated Submissions** in the sidebar on the left.

The Consolidated Submissions page (Figure 16) allows users to view their current consolidated submission for past and future Dispatch Intervals, for both DSP and RTM Submissions. The consolidated submission represents an integration of all valid standing and variation submissions received by AEMO for a given period, Facility and Market Service.

Figure 16 RTM Submissions Consolidated Submissions Page


Dispatch Interval	Period	Inj. (forecast)	With. (forecast)	Max Inj. Cap.	Max With. Cap.	Inflex. Prof.	Ramp Up	Ramp Down	FSIP	Tranches										File Type	Date & Time Uploaded	
										1	2	3	4	5	6	7	8	9	10			
1-288	08:00 - 08:00	0	0	50	0	No	20	20		50 MW MAX NON-LIQUID IN-SERVICE											Standing	14 Jul 2022 13:24

Consolidated submissions may only be viewed for a single Trading Day, Facility and Market Service combination at a time. To view a consolidated submission:

1. Select a Trading Day, Facility and Market Service in the search bar in the top-right of the consolidated submissions window (Figure 17). Any Trading Day between Real-Time Market Start and the current Acceptance Horizon may be selected
2. Select “Search” in the top-right of the consolidated submissions window (Figure 17).
3. When the “Search” button is selected:
 - 3.1. The creation time of the consolidated submission view will appear in the top-right of the consolidated submissions window (Figure 18). Note that if any submissions are received by AEMO after the consolidated submission view was created, the data displayed in the table may be outdated.
 - 3.2. The selected Trading Day, Facility and Market Service combination will appear above the consolidated submissions table (Figure 19).

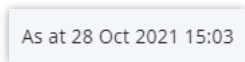
- 3.3. The consolidated submissions table will be populated. Note that this table differs depending on the facility type and Market Service. For facilities other than DSPs (covered by RTM Submissions), Figure 20 and Figure 21 illustrates the table for Energy and FCESS Market Services respectively. For DSP Facilities (covered by DSP Submissions), Figure 22 illustrates the table. The information contained in the consolidated submission view for non-DSP and DSP Facilities is detailed in Table 3 and Table 4 respectively.
- 4. To change the consolidated submission being displayed, change the Trading Day, Facility and Market Service in the search bar and select “Search” again. Note that the consolidated submission being displayed will not be updated until the “Search” button is selected.

Figure 17 Consolidated Submission Search Bar



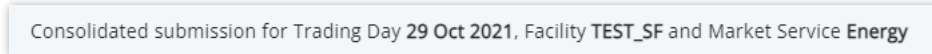
The image shows a search bar interface with three dropdown menus and a search button. The first dropdown is labeled 'Trading Day' with a downward arrow. The second dropdown is labeled 'Facility'. The third dropdown is labeled 'Market Service' with a downward arrow. To the right of these dropdowns is a button labeled 'SEARCH'.

Figure 18 Displayed Consolidated Submission Creation Time



The image shows a text box containing the creation time: 'As at 28 Oct 2021 15:03'.

Figure 19 Displayed Consolidated Submission Details



The image shows a text box containing the submission details: 'Consolidated submission for Trading Day 29 Oct 2021, Facility TEST_SF and Market Service Energy'.

Figure 20 Consolidated RTM Submission View for Energy

Dispatch Interval	Period	Inj. (forecast)	With. (forecast)	Max Inj. Cap.	Max With. Cap.	Inflex. Prof.	Ramp Up	Ramp Down	FSIP	Tranches										File Type	Date & Time Uploaded	
										1	2	3	4	5	6	7	8	9	10			
1-288	08:00 - 08:00	0	0	50	0	No	20	20		50 MW MAX NON-LIQUID IN-SERVICE											Standing	14 Jul 2022 13:24

Figure 21 Consolidated RTM Submission View for FCESS

Dispatch Interval	Period	Max Cap.	Enabl. Min	Low Break.	High Break.	Enabl. Max	Tranches										File Type	Date & Time Uploaded				
							1	2	3	4	5	6	7	8	9	10						
1-288	08:00 - 08:00	30	50	80	135	135	30 MW 20.00 \$/MWh NON-LIQUID AVAILABLE 300 min														Standing	06 Sep 2022 13:38

Figure 22 Consolidated DSP Submission View

Dispatch Interval	Period	Withdrawal Qty (Unconstrained)	Withdrawal Qty (Constrained)	File Type	Date & Time Uploaded
1-288	08:00 - 08:00	0 MW	0 MW	Standing	20 Jul 2022 16:24

Table 3 Consolidated RTM Submission View Contents

Column ID	Market Service(s)	Description
Dispatch Interval	All	The Dispatch Interval(s) number
Period	All	The start and end time of the Dispatch Interval(s) in the period
Inj. (forecast)	Energy	The expected MW level of Injection at the end of a Dispatch
With. (forecast)	Energy	The expected MW level of Withdrawal at the end of a Dispatch Interval
Max Inj. Cap.	Energy	The Facility maximum injection capacity for the period
Max With. Cap.	Energy	The Facility maximum withdrawal capacity for the period
Inflex. Prof.	Energy	A flag indicating whether the Facility is Inflexible in the period (“Yes” or “No”)
Ramp Up	Energy	The specified maximum upwards ramp rate
Ramp Down	Energy	The specified maximum downwards ramp rate
FSIP	Energy	The Fast Start Inflexibility Parameters (if specified) as defined in the WEM Rules clause 7.4.44
Max Cap.	FCESS	The Facility Available Capacity for the specified FCESS Market Service
Enabl. Min	FCESS	The Facility Enablement Minimum for the specified FCESS Market Service
Low Break.	FCESS	The Facility Low Breakpoint for the specified FCESS Market Service
Low Break.	FCESS	The Facility Low Breakpoint for the specified FCESS Market Service
High Break.	FCESS	The Facility High Breakpoint for the specified FCESS Market Service
Enabl. Max	FCESS	The Facility Enablement Maximum for the specified FCESS Market Service
Tranches	All	A list of tranches specified in the submission

Column ID	Market Service(s)	Description
Quantity	All	The quantity made available in the tranche
Price	All	The non-loss-factor adjusted price of the tranche
Fuel Type	All	The fuel type ("Liquid", "Non-Liquid", "Not Applicable") for the tranche
Capacity Type	All	The capacity type ("In-Service" or "Available") for the tranche
Notice Time	All	The notice time for any tranche with capacity type "Available"
File Type	All	The submission type ("Variation" or "Standing") of the most recent valid submission for the period, as used to develop the Consolidated Submission
Uploaded Date & Time	All	The upload Date & Time of the most recent valid submission for the period, as used to develop the Consolidated Submission

Table 4 Consolidated DSP Submission View Contents

Column ID	Description
Dispatch Interval	The Dispatch Interval(s) number
Period	The start and end time of the Dispatch Interval(s) in the period
Withdrawal Qty (Unconstrained)	The unconstrained MW quantity associated with the DSP Withdrawal Profile for the period
Withdrawal Qty (Constrained)	The constrained MW quantity associated with the DSP Withdrawal Profile for the period
File Type	The submission type ("Variation" or "Standing") of the most recent valid submission for the period, as used to develop the Consolidated Submission
Date & Time Uploaded	The upload Date & Time of the most recent valid submission for the period, as used to develop the Consolidated Submission

The user can download a copy of the consolidated submission in the format of a variation submission by selecting "Export" (Figure 23) in the top-right of the Real-Time Market Submissions Window. This generates a JSON file populated with the data displayed in the consolidated submission view and additional properties listed in Table 5. For additional information about the JSON file format, refer to the WEMS Real-Time Market Submission Specification.

Figure 23 Downloading the Consolidated Submission as a Variation Submission JSON File

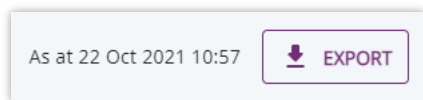


Table 5 RTM and DSP Consolidated Submission View Contents

JSON Object or Property	Value
type	Variation Object
comment	"RTM Submission Consolidated data for Trading Date <selected Trading Date >, Market Service <selected Market Service>, Facility <selected Facility>"
submissionCode	Blank
submissionReason	Blank
allowGateClosureViolation (RTM only)	Blank
tradingDays	Energy

JSON Object or Property	Value
dateFrom	Selected Trading Date
dateTo	Selected Trading Date
Market Service Object (energy, regulationRaise, regulationLower, contingencyRaise, contingencyLower, or rocof)	Object corresponding to the selected Market Service
facilityCode	Selected Facility
dispatchInterval and sub-elements	Data displayed in the consolidated submission table

4.4 Gate Closure Violations

To access the Gate Closure Violations window, select **Real-Time Market > Real-Time Market Submissions**, then select **Gate Closure Violations** in the sidebar on the left.

The Gate Closure Violations page (Figure 24) allows users to view the list of Dispatch Intervals submitted within Gate Closure from historical submissions. The Gate Closure Violation table lists each Dispatch Interval submitted within Gate Closure violations and provides summary information related to the submission within Gate Closure, as listed in Table 6.

Figure 24 Gate Closure Violation Page

Trading Day	Dispatch Interval	Facility	Market Service	Submission Time	Submitted Price	Submitted Qty	Uploaded By
27 Oct 2021	10:20 - 10:25	TEST_SSF	Energy	27 Oct 2021 10:14	-50.40 \$/MWh 15.25 \$/MWh	20,000 MW 30,000 MW	AEMOTESTER
27 Oct 2021	10:25 - 10:30	TEST_SSF	Energy	27 Oct 2021 10:14	-50.40 \$/MWh 15.25 \$/MWh	20,000 MW 30,000 MW	AEMOTESTER
27 Oct 2021	10:20 - 10:25	TEST_SSF	Energy	27 Oct 2021 10:14	-50.40 \$/MWh 15.25 \$/MWh	20,000 MW 30,000 MW	AEMOTESTER
27 Oct 2021	10:25 - 10:30	TEST_SSF	Energy	27 Oct 2021 10:14	-50.40 \$/MWh 15.25 \$/MWh	20,000 MW 30,000 MW	AEMOTESTER
26 Oct 2021	16:25 - 16:30	TEST_SSF	Energy	26 Oct 2021 16:18	-50.40 \$/MWh 15.25 \$/MWh	20,000 MW 30,000 MW	AEMOTESTER

Table 6 Gate Closure Violation Table Contents

JSON Object or Property	Value
Trading Day	The Trading Day of the Dispatch Interval(s) which were submitted within Gate Closure
Dispatch Interval	The start and end time of the Dispatch Interval(s) which were submitted within Gate Closure
Facility	The Facility related to the Dispatch Interval(s) which were submitted within Gate Closure
Market Service	The Market Service related to the Dispatch Interval(s) which were submitted within Gate Closure
Submission Time	The date and time of the submission which included the Dispatch Interval(s) within Gate Closure
Submitted Price	The non-loss-factor adjusted price of each tranche in the submission related to the Dispatch Interval(s) submitted within Gate Closure

JSON Object or Property	Value
Submitted Qty	The quantity of each tranche related to the Dispatch Interval(s) which were submitted within Gate Closure (i.e. the quantity submitted and accepted within Gate Closure)
Uploaded By	The user who made the submission

By default, the Gate Closure violation table lists all Gate Closure violations found within the previous 24 hours. To change the filter on this view:

1. Select “Filters” in the top-right of the gate closure violations page to open the filter window (Figure 24).
2. Select the filter criteria to be applied. Table 7 details the criteria which can be selected for filtering.
3. Select “Apply Filters” to apply the selected criteria to the gate closure violations table.
4. The applied filters will be listed at the top of the Gate Closure violations page (Figure 23).
5. Applied filters can be edited by selecting “Filters”, editing the selected filter criteria, and selecting “Apply Filters”.
6. To clear all filters, select “Clear All” at the top of the Gate Closure violations page (Figure 26).

Figure 25 Gate Closure Violations Filter Window

Table 7 Gate Closure Violations Filter Options

Column ID	Description
From Date & From Time	The calendar date and start time of the first Dispatch Interval for the output
To Date & To Time	The calendar date and end time of the last Dispatch Interval for the output The combined To Date and Time must be within 30 days of the combined From Date and Time
Facility	The Facility that the output relates to
Market Service	The Market Service the output relates to (energy or one of the FCESS Markets Services)

Figure 26 Filters on Gate Closure Violation table and Clearing Filters from the Table

Glossary

Term	Definition
AEMO	Australian Electricity Market Operator
ESS	Essential System Services
FCESS	Frequency Co-Optimised Essential System Services
Market Service	One of the services co-optimised through the RTM, being: <ul style="list-style-type: none">• Energy• One of the FCESS:<ul style="list-style-type: none">○ Regulation Raise○ Regulation Lower○ Contingency Raise○ Contingency Lower RoCoF (formally RoCoF Control Service)
Participant	In the context of this document, Participant is used in general terms to mean any registered Rule Participant, unless otherwise specified
RoCoF	Rate of Change of Frequency
RTM	<ul style="list-style-type: none">• Real-Time Market
RTMS	Real-Time Market Submissions
SWIS	South-West Interconnected System
WEM	Wholesale Electricity Market
WEM Rules	Wholesale Electricity Market Rules
WEMS	Wholesale Electricity Market Systems
WEMS MPI	WEMS Market Participant Interface