

# WEMS MPI User Guide: Short Term Energy Market

August 2023

Version 1





# Important notice

### Purpose

AEMO has prepared this document to provide information about the Short Term Energy Market (STEM) support process available to Market Participants for the Wholesale Electricity Market System (WEMS), as at the date of publication.

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#### Version control

Version	Release date	Changes
1.0	August 11 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 specific to the Short Term Energy Market. 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 <u>Market Procedure: Data and IT Interface Requirements</u> 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 token before the user is able to access the MPI. The RSA SecurID token can be identified by the RSA SecurID dark blue and red logo with white writing (see Figure 1).

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 <u>wa.operations@aemo.com.au.</u>

New users must also be assigned the appropriate roles by their MPA to ensure they have the correct access privileges. Refer to the <u>Market Participant Administrator Guide</u> 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 STEM and Bilateral submissions can do so within the Energy Market menu (Figure 3).

#### Figure 1 RSA SecurID token example



Figure 2 WEMS MPI login screen

	RSA SecuriD
Welcome to W	EMS
CE (RSA) [159 159]	User ID: Passcode: Your Passcode is your PIN + the number displayed on your token (the Tokencode).
	Log In Reset
	Apply for a Token Login Reference Guide

#### Figure 3 Energy Market Menu



# **4** Common Information

Every webpage within the MPI contains the standard navigation items in Table 1.

#### Table 1 Standard MPI navigation items

Item	Description
Contact Us	Provides AEMO contact details for queries related to the MPI and WEMS.
Disclaimer	Site specific disclaimer for MPI user.
Help	Provides the user guide of the application (this document).
Logout	Allows the user to logout from the application.
Menu	Allows navigating across the application. Home, Notifications, Energy Market, Reserve Capacity, Balancing, LFAS, Registration, Settlements, Reports, Configuration, Help, and Logout menu items are available.
User Name	Name of the user that is logged in.
WEMS Market Time	Displays the time of the WEMS (Australian Western Standard Time)

## 5 Dashboard

Upon successfully logging into the MPI, users will be directed to the Market Summary dashboard (see Figure 4). Each of the individual components of the dashboard (see Table 2) is refreshed periodically, ensuring the latest information is presented to users without the need for the user to refresh the page. The functionality of the dashboard components are explained in more detail in Sections 5.1, 5.1.2, 5.2 and 5.3.

For assistance with the Dashboard, please contact WA Market Operations at <u>wa.operations@aemo.com.au.</u>

	Pa.	Market Window Status	ř.										ć
Trading Date 20/06/2019		Market		Name			Trade Date		Start Time		Close Time	Status	
3,000		Energy Market		Bilateral Contr	acts		21 Jun 2019 22 Jun 2019 23 Jun 2019		13 Jun 20 14 Jun 20 15 Jun 20	9 06 00 9 08 00 9 08 00	20 Jun 2019 08 50 21 Jun 2019 08 50 22 Jun 2019 06 50	CLOSED OPEN OPEN	Ì
2,000	_						24 Jun 2019 25 Jun 2019 26 Jun 2019 27 Jun 2019		17 Jun 20 18 Jun 20 19 Jun 20	9 06 00 9 06 00 9 06 00	24 Jun 2019 06 50 25 Jun 2019 06 50 26 Jun 2019 06 50 26 Jun 2019 06 50	OPEN OPEN OPEN	
1.000		Energy Market Stand	ing Submission	Stem Submiss Bilateral Contr	ions ects		28 Jun 2019 21 Jun 2019 22 Jun 2019 29 Jun 2019		20 Jun 20 20 Jun 20 21 Jun 20 20 Jun 20	19 06:00 19 09:00 19 09:00 19 13:00	27 Jun 2019 06 50 20 Jun 2019 10 50 21 Jun 2019 10 50 20 Jun 2019 15 50	OPEN OPEN NOT OPEN NOT OPEN	
0 0 10 11 12 13 14 15 10 17 18 19 20 21 22 23 0 1 2 3 Trading interval	4 5 0 7	Reserve Market (Mon	attily)	Stem Submiss Reserve Capa Capacity Cred	ions city Allocatio it Allocation	an Consumer De	22 Jun 2019 05(2019 06(2019 ata 05(2019		20 Jun 20 04 Jun 20 01 Jul 201 19 Jun 20	19 13:00 19 09:00 9 09:00 19 09:00	20 Jun 2019 15:50 17 Jun 2019 17:00 15 Jul 2019 17:00 26 Jun 2019 12:00	CLOSED NOT OPEN OPEN	
Load Frietast Real Time		Salancing Market Load Following	Batancing Submissions Load Following Submissions			05/2019 01 Jul 2012 20 Jun 2019 20 Jun 2019	17 Jul 20 20 Jun 20 20 Jun 21		119 09 00         24 Jul 2019 12:0           019 14:00         20 Jun 2019 19:0           2019 20:00         21 Jun 2019 01	24 Jul 2019 12:00 20 Jun 2019 19:30 21 Jun 2019 01:30	OPEN CLOSED OPEN		
300 Trading Date 20.06/2019	350	Issue Date	Participant	Market Type	Severity	Message Code	Report Name	Report Type	Trading Date	Message			
300 270 g 300	300 250 200 g	2005/2019 09 04 15 2005/2019 09 04 15 2005/2019 09 03 56 2005/2019 09 03 56 2005/2019 09 03 56	ALLMP ALLMP ALLMP ALLMP ALLMP	BALANCING BALANCING LFAS LFAS LFAS	Normal Normal Normal Normal	RED1 RED1 RED1 RED1 RED1	BalancingPrices BalancingQuantityPrice LoadFollowingQuantityPrices LoadFollowingPrices LoadFollowingMertOrders	FORECAST FORECAST FORECAST FORECAST		Report published Report published Report published Report published Report published			Î
§ 100	150 2	20/06/2019 09 02 56 20/06/2019 09 00 15	ALLMP	ENERGY	Normal	RE01	BalancingMentOrders EM_InitSTEMCapObligations	FORECAST	21/06/2019	Report published Reports on Energy Information for tradi	Market Initial STEM Reserving date 21/05/2019 are avai	e Capacity Obligations lable for viewing	
100	50	20/06/2019 08:54:15	ALLMP	ENERGY	Normal	RED1 RED1	EM_LoadFotBit EM_BitConsumers		21/06/2019	Contracts for tradin Reports on Energy date 21/06/2019 and	g date 21/06/2019 are availe Market Final Bilateral Consu a svalable for version	ible for viewing imer information for tradin	
	0	20/06/2019 08:54:15	ALLMP	ENERGY	Normal	RE01	EM_FinaNetBitPos		21/06/2019	Reports on Energy 21/06/2019 are ave	Market Final Net Bilateral Pr Rable for viewing	osition for trading date	
TO 50 9 8 9 10 11 12 13 14 15 18 17 18 19 20 21 22 23 0 1 2 3 4 1 Tadra preval	5 6 7		ALLMP	ENERGY	Normal	RE01	RCM_EstResidual BalancingPrices	FORECAST	21/06/2019	Reports on Energy trading date 21/06/0 Report published	Market Available Capacity in 2019 are available for viewin	9 9	
0 0 0 0 0 0 0 0 0 0 0 0 10 1	5 0 7	20/06/2019 08:54:13 20/06/2019 08:34:15 20/06/2019 08:34:15	ALLMP	BALANCING	Normal	RE01	BalancingQuartityPrice	FORECAST		Report published			

#### Figure 4 Market Summary dashboard

#### Table 2 Market Summary dashboard component descriptions

Dashboard Item	Description
Load Forecast and	Provides a graph of the forecasted load and real time load for the current trading day.
Real TimeGeneration	Refreshes every 60 seconds.
Graph	Can be enlarged or downloaded to CSV.
STEM Prices and	Provides a graph of the STEM Traded Quantities and Prices for each trading interval of the currenttrading day.
QuantitiesGraph	Refreshes every time the dashboard loads or the page is refreshed.Can be enlarged or downloaded to CSV.
Market Window Status	Displays all the Market Windows which are in an "Open state", at any point of time. Refreshes every 60 seconds. Can be enlarged or downloaded to CSV.

Dashboard Item	Description
Market Messages	Displays the latest 20 WEMS market messages.
	Displays market messages by Issue Date, Participant, Market Type, Trading Date and Message.
	Refreshes every 60 seconds.
	Can be enlarged or downloaded to CSV.

## 5.1 Market Summary Graphs

#### 5.1.1 Enlarging the graphs

All graphs on the dashboard can be enlarged by clicking the magnifier icon in the header of the graph (see Figure 5). The graph will then enlarge to cover the MPI screen (see Figure 6).

#### Figure 5 Enlarging the graph using the magnifier icon







#### 5.1.2 Downloading data from graphs

The underlying data from each of the graphs can be downloaded directly from within the dashboard into a comma delimited (CSV) file format by clicking the icon in the header of the graph (see Figure 7). The user will be prompted with a File Download dialog box at the bottom left of the screen.

The default file names for the data are:

- Load Forecast and Real Time Data LoadFcstRealTime\_ddmmyyyyhhmmss
- STEM Prices and Quantities StemPriceQuantity\_ddmmyyyyhhmmss where ddmyyyyhhmmss is the time the user initiated the download.



#### Figure 7 Downloading data from graph using the download icon

### 5.2 Market Window Status

The Market Window Status display provides all Energy Data Submission Window details (see Figure 7).

The Market Window Status fields are described in Table 3.

Use the scroll bar to view all Market Window Statuses on the dashboard.

To open the Market Window Status display in a separate tab/window, click on the window icon at the top right of the Market Window Status display (see Figure 8). The full Market Window page provides details of all the current and future Market Windows and their respective status (see Figure 9).

Field Name	Field Description
Market	Energy Market
Name	Bilateral Contracts or Stem submissions
Trade Date	Trading Date for which the market window is open
Start Time	Date and time when the Market Window opens
Close Time	Date and time when the Market Window closes
Status	Market Window status

#### Table 3 Market Window Status field descriptions

#### Figure 8 Market Window Status display

Market	Name	Trade Date	Start Time	Close Time	Status	
Energy Market	Bilateral Contracts	11 Jun 2014	03 Jun 2014 08:00	10 Jun 2014 08:50	CLOSED	
		12 Jun 2014	04 Jun 2014 08:00	11 Jun 2014 08:50	OPEN	
		13 Jun 2014	05 Jun 2014 08:00	12 Jun 2014 08:50	OPEN	
		14 Jun 2014	06 Jun 2014 08:00	13 Jun 2014 08:50	OPEN	
		15 Jun 2014	07 Jun 2014 08:00	14 Jun 2014 08:50	OPEN	
		16 Jun 2014	08 Jun 2014 08:00	15 Jun 2014 08:50	OPEN	
		17 Jun 2014	09 Jun 2014 08:00	16 Jun 2014 08:50	OPEN	
		18 Jun 2014	10 Jun 2014 08:00	17 Jun 2014 08:50	OPEN	
	Resource Plan and Balancing Submissions	11 Jun 2014	10 Jun 2014 11:00	10 Jun 2014 12:50	NOT OPEN	
		12 Jun 2014	11 Jun 2014 11:00	11 Jun 2014 12:50	NOT OPEN	
	Stem Submissions	11 Jun 2014	10 Jun 2014 09:00	10 Jun 2014 09:50	CLOSED	



Status					
Aarket	Name	Trade Date	Start Time	Close Time	Status
Energy Market	Bileteral Contracts	27 Mar 2018	19 Mar 2018 08:00	26 Mar 2018 08:50	CLOSED
		28 Mar 2018	20 Mar 2018 08:00	27 Mar 2018 08:50	OPEN
		29 Mar 2018	21 Mar 2018 08:00	28 Mar 2018 08:50	OPEN
		30 Mar 2018	22 Mar 2018 08:00	29 Mar 2018 08:50	OPEN
		31 Mar 2018	23 Mar 2018 08:00	30 Mar 2018 08:50	OPEN
		01 Apr 2018	24 Mar 2018 08:00	31 Mar 2018 08:50	OPEN
		02 Apr 2018	25 Mar 2018 08:00	01 Apr 2018 08:50	OPEN
		03 Apr 2018	26 Mar 2018 08:00	02 Apr 2018 08:50	OPEN
	Resource Plan and Balancing Submissions	27 Mar 2018	26 Mar 2018 11:00	26 Mar 2018 12:50	CLOSED
		28 Mar 2018	27 Mar 2018 11:00	27 Mar 2018 12:50	NOT OPEN
	Stem Submissions	27 Mar 2018	26 Mar 2018 09:00	26 Mar 2018 09:50	CLOSED
		28 Mar 2018	27 Mar 2018 09:00	27 Mar 2018 09:50	NOT OPEN
nergy Market Standing Submission	Bilateral Contracts	04 Apr 2018	26 Mar 2018 13:00	26 Mar 2018 15:50	NOT OPEN
	Resource Plan	28 Mar 2018	26 Mar 2018 13:00	26 Mar 2018 15:50	NOT OPEN
	Stem Submissions	28 Mar 2018	26 Mar 2018 13:00	26 Mar 2018 15:50	NOT OPEN
teserve Market (Monthly)	Reserve Capacity Allocation	02/2018	01 Mar 2018 09:00	15 Mar 2018 17:00	CLOSED
		03/2018	03 Apr 2018 09:00	16 Apr 2018 17:00	NOT OPEN
	Capacity Credit Allocation Consumer Data	02/2018	19 Mar 2018 09:00	26 Mar 2018 12:00	CLOSED
		03/2018	18 Apr 2018 09:00	26 Apr 2018 12:00	NOT OPEN
alancing Market	Balancing Submissions	01 Jul 2012			OPEN
oad Following	Load Following Submissions	26 Mar 2018	26 Mar 2018 14:00	26 Mar 2018 19:30	CLOSED
		26 Mar 2018	26 Mar 2018 20:00	27 Mar 2018 01:30	OPEN
		26 Mar 2018	27 Mar 2018 02:00	27 Mar 2018 07:30	OPEN
		27 Mar 2018	27 Mar 2018 08:00	27 Mar 2018 13:30	OPEN

### 5.3 Market Messages

The Market Messages display provides information headlines on recent market events, such as automated report publication and availability to the market. Events that have been initiated manually by WA Market Operations will also appear here.

Market Messages are categorised by the following severity types:

- Normal (N): Automated market messages generated by the system.
- Urgent (U): Urgent messages.
- Emergency (E): Emergency messages.

The Market Messages display fields are described in Table 5.

Use the scroll bar to view all Market Messages on the dashboard.

To view the Market Messages in separate tab/window, click on the window icon at the top right of the display (see Figure 10). Market Messages can then be filtered by Issue Date, Market Type, and Severity of the message.

The results from the Market Message search query will populate the right-hand side of the browser (see Figure 11).

To download the Market Messages from the Home dashboard, click on the file icon at the top right of the window (see Figure 10). The user will be prompted with a File Download dialog box where the message information can either be saved to disk or opened directly. The format of the file is comma delimited (CSV).

The default file name for the data is:

notification.marketmessages\_[MP SHORTNAME]\_YYYYMMDDHHMMSS

#### Table 4 Market Messages display fields

Field Name	Field Description
Issue Date	Date and time of the message issued
Participant	Participant the Message is applicable to – most messages are applicable to all participants and thisfield shows ALLMP
Market Type	ENERGY
Severity	Can be NORMAL, URGENT, or EMERGENCY
Message Code	
Report Name	The name of report the message is applicable to (if message is not specific to a report then this fieldwill be blank)
Report Type	
Trading Date	The trading date the report is applicable to (if message is not specific to a report then this field willbe blank)
Message	Market Message description

#### Figure 10 Market Messages display

Issue Date	Participant	Market Type	Severity	Message Code	Report Name	Report Type	Trading Date	Message
11/09/2014 15:05:02	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
11/09/2014 15:04:08	ALLMP	BALANCING	Normal	RE01	BalancingPrices	FORECAST		Report published
11/09/2014 15:04:08	ALLMP	BALANCING	Normal	RE01	BalancingQuantityPrice	FORECAST		Report published
11/09/2014 15:02:35	ALLMP	BALANCING	Normal	RE01	BalancingMeritOrders	FORECAST		Report published
11/09/2014 15:02:07	ALLMP	LFAS	Normal	RE01	LoadFollowingQuantityPrice s	FORECAST		Report published
11/09/2014 15:02:07	ALLMP	LFAS	Normal	RE01	LoadFollowingPrices	FORECAST		Report published
11/09/2014 15:02:07	ALLMP	LFAS	Normal	RE01	LoadFollowingMeritOrders	FORECAST		Report published
11/09/2014 14:35:32	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
11/09/2014 14:35:18	ALLMP	ENERGY	Normal					Reports on Energy Market Ex Post Outages Information for trading date 23/08/2014 are available for viewing.
11/09/2014 14:34:08	ALLMP	BALANCING	Normal	RE01	BalancingPrices	FORECAST		Report published

ch		Market Messages								
Output @	View () CSV	Issue Date	Participant	Market Type	Severity	Message	Report Name	Report Type	Trading	Message
		0105/2014 10:21:24	ATTMP	ENERGY	Normal	COUL			Digits.	Reports on Energy Market Portfolio Curves Information for trading date 6205/2014 are available for viewing
		01/05/2014 10:21-15	ALLMP	ENERGY	Normal					Reports on Freque liarted Bids and Offers information for tracing date 0205/2014 are available for viewing
From Date 1	1/05/2014 -	01/05/2014 10 21:04	ALLMP	ENERGY	Normal					Reports on Energy Market STEM Family Declarations for tradition date 02/05/2014 are available for viewing
To Date	005/2014 -	01/05/2014 10:20:37	ALLMP	ENERGY	Normal					Reports on Energy Market STEM Toxice for Participants for tracing date 0205/2016 are available for viewing
Market Type	- Al *	01/05/2014 10:20:29	ALLMP	ENERGY	Normal					Reports on Energy Market STEM Participant Net Bilateral Position and Declarations for trading date 02/05/2014 are available for viewing.
		01/05/2014 10 20 24	ALLUP	ENERGY	Normal					Reports on Energy Market STEM Summary Information and Prices for trading date 02/05/2014 are evaluable for viewing
Seventy -	- A1 *	01/05/2014 10:20:18	ALLMP	ENERGY	Normal					Reports on Energy Market Bisteral Submissions Information for trading date 02/05/2014 are available for viewing
		01/05/2014 10 13:51	ALLMP	ENERGY	Normal	RE01	RealTimeOutage			Report published
	A	01/05/2014 10:04:12	ALLMP	BALANCING	Normai	RE01	BalancinoPrices	FORECAST		Beoprit published
	CLEAN O GO	01/05/2014 10:04:12	ALLMP	BALANCING	Normal	RE01	BalancinoQuantityPrice	FORECAST		Record published
		01/05/2014 10:04:01	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		01/05/2014 10:02:48	ALLMP	BALANCING	Normal	RE01	BalancingMeritOrders	FORECAST		Record published
		01/05/2014 10:02:12	ALLMP	LEAS	Normal	RE01	LoadFollowinoQuantityPrices	FORECAST		Report published
		01/05/2014 10:02:12	ALLMP	LEAS	Normal	BE01	LoadFollowingPrices	FORECAST		Record published
		01/05/2014 10:02:12	ALLMP	LEAS	Normal	RE01	LoadFollowingMertOrders	FORECAST		Report published
		01/05/2014 09:56:36	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	FINAL	29/04/2014	Record published
		01/05/2014 09:58:36	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		01/05/2014 09:53:00	ALLMP	LFAS	Normal	RE01	LoadFollowingPrices			Record published
		01/05/2014 09:53:00	ALLMP	LEAS	Normal	LE01			02/05/2014	1 FAS Requirements received from System Management
		01/05/2014 09:52:41	ALLMP	ENERGY	Normal	RE01	Dispatchinstructions		30/04/2014	Record published
		01/05/2014 09:34:12	ALLMP	BALANCING	Normal	RE01	BalancinoPrices	FORECAST		Report published
		01/05/2014 09:34:12	ALLMP	BALANCING	Normal	RE01	BalancingQuantityPrice	FORECAST		Record published
		01/05/2014 09:33:51	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		01/05/2014 09:32:40	ALLMP	BALANCING	Normal	RE01	BalancingMentOrders	FORECAST		Record published
		01/05/2014 09:32:11	ALLMP	LFAS	Normal	RE01	LoadFollowingQuantityPrices	FORECAST		Record published
		01/05/2014 09:32:11	ALLMP	LFAS	Normal	RE01	LoadFollowingPrices	FORECAST		Report published
		01/05/2014 09:32:11	ALLMP	LEAS	Normal	RE01	LoadFollowingMertOrders	FORECAST		Report published
		01/05/2014 09:30:19	ALLMP	ENERGY	Normal					Reports on Energy Market STEM Reserve Capacity Obligations Information for trading date 02/05/2014 are available for viewing.
		01/05/2014 09:30:15	ALLMP	ENERGY	Normal					Reports on Energy Market Monthly Capacity Credits Information for Capacity Year 2014 and Month April are available for viewing.
		01/05/2014 09:04:21	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		01/05/2014 09:04:12	ALLMP	BALANCING	Normal	RE01	BalancingPrices	FORECAST		Report published
		01/05/2014 09:04:12	ALLMP	BALANCING	Normal	RE01	BalancingQuantityPrice	FORECAST		Report published
		01/05/2014 09:02:47	ALLMP	BALANCING	Normal	RE01	BalancingMeritOrders	FORECAST		Report published
		01/05/2014 09:02:12	ALLMP	LFAS	Normal	RE01	LoadFollowingQuantityPrices	FORECAST		Report published
		01/05/2014 09:02:12	ALLMP	LFAS	Normal	RE01	LoadFollowingPrices	FORECAST		Report published
		01/05/2014 09:02:12	ALLMP	LFAS	Normal	RE01	LoadFollowingMertOrders	FORECAST		Report published

#### Figure 11 Market Messages displayed in a separate tab/window

### 5.4 Market Messages Search

The Market Messages search functionality enables users to search historical messages for a date range. The date range is configured and controlled by AEMO.

To access the search function, select Notifications >Market Messages (see Figure 12).

Upon clicking the menu, the system navigates to a screen with default search criteria (see Figure 13). The search criteria is described in Table 5 and the search result data fields are described in Table 7.

Once the search criteria have been selected, click on the Go button to retrieve the results. For the example shown in Figure 14, Energy is selected under Market Type and Normal is selected under Severity.

Once the search criteria has been selected, select the CSV option to download the file (see Figure 15).

Field Name	Field Description
From Date	Start Date of the date range for searching
To Date	End Date of the date range for searching
Market Type	Market Type for which the message belongs to. Available options are as follows: <ul> <li>ALL</li> <li>ENERGY</li> <li>RESERVE</li> <li>BALANCING</li> <li>LFAS</li> <li>STEM</li> </ul>

#### Table 5 Market Messages search criteria fields

Field Name	Field Description
Severity	Message Severity. Available options are as follows. <ul> <li>ALL</li> <li>NORMAL</li> <li>URGENT</li> <li>EMERGENCY</li> </ul>

#### Table 6 Market Messages search results fields

Field Name	Field Description
Issue Date	Market Message issued date and time
Participant	Participant name for which the message is belongs to
Market Type	The market type
Severity	The severity type
Message Code	Used for AEMO internal
Report Name	The name of the report
Report Type	FINAL or PROVISIONAL
Trading Date	Trading date for which the report was issued
Message	The message description

#### Figure 12 Market Messages search



#### Figure 13 Market Messages search display

Home	Notifications	Energy Market	Reserve Capacity	Balancing	LFAS Reg	istration S	Settlement	s Repor	ts Configuration H	lelp Logout	W(	ms
me > M	arket Messages								2		wholesale e	ectiony mathematica
Search	h			Market Mess	ages							
	Output	View     O     CSV	ē	Issue Date	Participant	Market Type	Severity	Message Code	Report Name	Report Type	Trading Date	Message
÷				18/06/2014 11:30:12	ALLMP	ENERGY	Normal	RE01	RealTimeOutage			Report published
	From Date	18/06/2014 -		18/06/2014 11:04:09	ALLMP	BALANCING	Normal	RE01	BalancingPrices	FORECAST		Report published
	Market Type	All		18/06/2014 11:04:09	ALLMP	BALANCING	Normal	RE01	BalancingQuantityPrice	FORECAST		Report published
	Severity	All 💌		18/06/2014 11:03:53	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
				18/06/2014 11:02:41	ALLMP	BALANCING	Normal	RE01	BalancingMeritOrders	FORECAST		Report published
		<b>S</b> (	LEAR GO	18/06/2014	ALLMP	LFAS	Normal	RE01	LoadFollowingQuantityPri ces	FORECAST		Report published
				18/06/2014	ALLMP	LFAS	Normal	RE01	LoadFollowingPrices	FORECAST		Report published
				18/06/2014 11:02:08	ALLMP	LFAS	Normal	RE01	LoadFollowingMeritOrder s	FORECAST		Report published
				18/06/2014 11:01:42	ALLMP	ENERGY	Normal	RE01	RealTimeOutage			Report published
				18/06/2014	ALLMP	BALANCING	Normal	RE01	BalancingQuantityPrice	FINAL	15/06/2014	Report published

#### Figure 14 Market Messages search criteria example

Home	Notifications	Energy Market	Reserve Capacity	Balancing	LFAS Reg	istration	Settlement	s Repor	ts Configuration	Help Logout	W	oms
ome > Mari	ket Messages								2		windresdre	electricity market system
Search				Market Mess	ages							
	Output	View OCS	v	Issue Date	Participant	Market Type	Severity	Message Code	Report Name	Report Type	Trading Date	Message
36			0	02/06/2014 23:33:52	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
	From Date	2/06/2014 -		02/06/2014 23:03:52	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
	Market Type	Energy v		02/06/2014 22:34:12	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
	Severity	Normal 👻		02/06/2014 22:04:12	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		-		02/06/2014 21:34:01	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
		8	CLEAR O GO	02/06/2014 21:04:01	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published
				02/06/2014 20:33:52	ALLMP	ENERGY	Normal	RE01	FacilityScadaReport	PROVISIONAL		Report published

#### Figure 15 Market Messages download

Home	Notifications	Energy Ma	arket	Reserve Capacity
ome > M	arket Messages			
Searc	h			
	Output	○ View	● CS\	$\supset$
	From Date	18/06/2014	*	
	To Date	19/06/2014	-	
	Market Type	All	*	
	Severity	All	-	

### 5.5 Market Status

The Market Status display is a dashboard to view the expected timeline for when market windows will open and close. It also displays the current status.

To view the Market Status display, select Notifications > Market Status (see Figure 16). The Market Status display fields are described in Figure 16.

Field Name	Field Description
Market	ENERGY MARKET
Name	Name of submission type
Trade Date	Trade date for which the submission applies

Field Name	Field Description
Start Time	Time that the window opens
Close Time	Time that the window closes

### Figure 16 Market Status display

Notifications Energy Market Reserve Capa	city Balancing LFAS Registration Settlements Reports (	Configuration Help Logout			wems
Market Window Status			<u>e</u> 1	MOWA_MC@IMOWA	Indexing or a city many system
et Status					
Market	Name	Trade Date	Start Time	Close Time	Status
Energy Market	Bilateral Contracts	21 Jun 2019	13 Jun 2019 08:00	20 Jun 2019 08:50	CLOSED
		22 Jun 2019	14 Jun 2019 08:00	21 Jun 2019 08:50	OPEN
		23 Jun 2019	15 Jun 2019 08:00	22 Jun 2019 08:50	OPEN
		24 Jun 2019	16 Jun 2019 08:00	23 Jun 2019 08:50	OPEN
		25 Jun 2019	17 Jun 2019 08:00	24 Jun 2019 08:50	OPEN
		26 Jun 2019	18 Jun 2019 08:00	25 Jun 2019 08:50	OPEN
		27 Jun 2019	19 Jun 2019 08:00	26 Jun 2019 08:50	OPEN
		28 Jun 2019	20 Jun 2019 08:00	27 Jun 2019 08:50	OPEN
	Stem Submissions	21 Jun 2019	20 Jun 2019 09:00	20 Jun 2019 10:50	OPEN
		22 Jun 2019	21 Jun 2019 09:00	21 Jun 2019 10:50	NOT OPEN
Energy Market Standing Submission	Bilateral Contracts	29 Jun 2019	20 Jun 2019 13:00	20 Jun 2019 15:50	NOT OPEN
	Stem Submissions	22 Jun 2019	20 Jun 2019 13:00	20 Jun 2019 15:50	NOT OPEN
Reserve Market (Monthly)	Reserve Capacity Allocation	05/2019	04 Jun 2019 09:00	17 Jun 2019 17:00	CLOSED
		06/2019	01 Jul 2019 09:00	15 Jul 2019 17:00	NOT OPEN
	Capacity Credit Allocation Consumer Data	05/2019	19 Jun 2019 09:00	26 Jun 2019 12:00	OPEN
		06/2019	17 Jul 2019 09:00	24 Jul 2019 12:00	NOT OPEN
Balancing Market	Balancing Submissions	01 Jul 2012			OPEN
Load Following	Load Following Submissions	20 Jun 2019	20 Jun 2019 14:00	20 Jun 2019 19:30	CLOSED
		20 Jun 2019	20 Jun 2019 20:00	21 Jun 2019 01:30	OPEN
		20 Jun 2019	21 Jun 2019 02:00	21 Jun 2019 07:30	OPEN
		21 Jun 2019	21 Jun 2019 08:00	21 Jun 2019 13:30	OPEN

## 6 Reports

This section should be read in conjunction with the <u>WEMS Reports and Web Service Specification</u> document.For assistance with Reports, please contact WA Market Operations at <u>wa.operations@aemo.com.au.</u>

## 6.1 Available Reports

The operational reports available in the MPI are outlined in Table 8.

#### Table 8 Operational reports available in MPI

Category	Report	Report Name
STEM and Bilateral Reports	Bilateral Contract Standing Data Conversion	EM_BiltStndConv
STEM and Bilateral Reports	Bilateral Submissions	EM_BiltSubmission
STEM and Bilateral Reports	Final Bilateral Consumer Information	EM_BiltConsumers
STEM and Bilateral Reports	Final Net Bilateral Position	EM_FinalNetBiltPos
STEM and Bilateral Reports	Load Forecast vs Bilateral Contracts	EM_LoadFcstBilt
STEM and Bilateral Reports	Standing STEM Submission Curtailment	EM_STEMStndCurt
STEM and Bilateral Reports	STEM Bids and Offers	EM_STEMBidsAndOffer
STEM and Bilateral Reports	STEM Facility Declaration	EM_STEMResInfo
STEM and Bilateral Reports	STEM Facility Limits	EM_FacilityLimit
STEM and Bilateral Reports	STEM Participant Limits	EM_PartLimit
STEM and Bilateral Reports	STEM Portfolio Curve	EM_STEMPortCrv
STEM and Bilateral Reports	STEM Standing Data Conversion	EM_STEMStndConv
STEM and Bilateral Reports	STEM Summary Info	EM_STEMSummaryInfo
STEM and Bilateral Reports	STEM Trade Results	EM_STEMResultPartInfo
Market Reports	All STEM Bids and Offers Report	All_Bids_and_Offers
Market Reports	All STEM Facility Declarations Report	All_Facility_Declarations
Market Reports	All STEM Trades Report	AIL_STEM_Trades

### 6.2 View Reports

The MPI allows users to view and download reports by the methods outlined in Table 9. To view and download reports, select Reports > View (see Figure 17).

#### Table 9 Report access methods

Access Method	Description
By Report Name	Allows the user to view and download the report by name for a date range.
By Trade Date	Allows users to download multiple reports published for a single trade date, while viewing of reports within the browser is limited to one report at a time.
	The number of reports a user can download at a time is controlled and configurable by AEMO.

#### Figure 17 View and Download reports

Home Notifications Energy Mar	rket Reserve Capacity B	alancing LFAS Registration Settlements Reports Configuration Help Logout	Wems
By Report By Trade Date		Report Search Result	
Report Select Report	•		

#### 6.2.1 By Report Name

By default, the system navigates to the By Report tab in the Reports display. In this tab, users are able to select a report from the dropdown list for viewing or downloading (see Figure 18).

Once the report name is selected, the system will automatically populate the available search criteria and control parameters which are specific to the report, in the left-hand search area of the page.

The control parameters are outlined in Table 10 and the search criteria are outlined in Table 11.

All report parameters are controlled and configurable by AEMO, including the number of days of data available to users for download at a time per report. These parameters may be modified from time to time by AEMO to improve usability and performance.

Once the search criteria have been chosen, the report can be viewed by clicking on the View button in the lefthand search area. Depending on the availability of data, the MPI will respond in one of the following ways:

- 1. Returns the report data matching the search criteria.
- 2. Report Not Published.
- 3. No data found.

An example of a report displayed using the View button is shown in Figure 20.

Field Name	Field Description		
Max Days/Months/Years	Maximum number of days/months/years a report can be retrieved in a single request (dependant on report group).		
Earlier Date	Earliest date for which the report data is available.		

#### Table 10Report parameters display

#### Table 11 By Report display search criteria fields

Field Name	Field Description		
Start Date	Start date of a date range for the search, which defaults to the current trading date.		
End Date	End date of a date range for the search, which defaults to the current trading date.		

#### Figure 18 Selecting a report



#### Figure 19 Options once a report is selected

#### Figure 20 Viewing a selected report

	TRADING DAY	HOUR OF DAY	TRADING INTERVAL	FORECAST (MWh)	FORECAST (MW)
tion: Operational Load Forecast	14/05/2015	8	1	1,119.130	2,23
	14/05/2015	8	2	1,101.228	2,20
	14/05/2015	9	1	1,088.938	2,1
tern View Download	14/05/2015	9	2	1,076.555	2,1
	14/05/2015	10	1	1,067.818	2,1
5 31	14/05/2015	10	2	1,062.531	2,1
late 21/09/2006 21/09/2006	14/05/2015	11	1	1,062.725	2,1
14/05/2015	14/05/2015	11	2	1,066.122	2,1
14/03/2010	14/05/2015	12	1	1,069.147	2,
14/05/2015	14/05/2015	12	2	1,072.754	2,
View XML CSV	14/05/2015	13	1	1,084.214	2,
	14/05/2015	13	2	1,096.790	2,
	14/05/2015	14	1	1,109.254	2,
	14/05/2015	14	2	1,121.196	2,
	14/05/2015	15	1	1,134.631	2,
	14/05/2015	15	2	1,152.435	2,
	14/05/2015	16	1	1,170-277	2,
	14/05/2015	16	2	1,188.593	2,
	14/05/2015	17	1	1,219.436	2,
	14/05/2015	17	2	1,275.347	2,
	14/05/2015	18	1	1,310.457	2,0
	14/05/2015	18	2	1,288.993	2,5

#### 6.2.2 By Trade Date

The By Trade Date option allows users to search multiple reports at a time for a particular date. Once a date has been chosen, the left-hand search menu will populate itself with a list of all the available reports for the chosen date (see Figure 21).

Users can refresh the report list at any time, or select reports for another date, by modifying the date in the Date box and clicking on the Refresh button.

Users are able to view a list of published reports only. The selection criteria are outlined in Table 12.

To view reports from the By Trade Date screen, users need to click on the report name hyperlink in the left-hand search area. The single report will then be viewable to the right of the search criteria (see Figure 22).

While it is not possible to view multiple reports simultaneously in the browser, it is possible to downloadmultiple reports at once by enabling the check boxes of the required reports and clicking on the desired download format (either XML or CSV) (see Download Reports).

#### Table 12 By Trade Date display search criteria fields

Field Name	Field Description
Date	Report Date
Report List	List of reports applicable to the chosen report date. The total number of reports that a user canselect to download at a time is controlled and configurable by AEMO.

#### Figure 21 By Trade Date display

Date	10/11/2015 Refresh					
Chec	k/Uncheck All	*				
EM_A	AdminBalPrices					
EM_A	IncServ					
EM_A	IncServFacilities					
EM_B	alSubmission					
EM_B	BiltConsumers					
EM_B	BiltStndConv					
EM_B	EM_BiltSubmission					
EM_C	EM_CommissioningTest					
EM_E	DispMeritOrder					
EM_E	ExPostOutages					
EM_FacilityLimit						
EM_FinalNetBiltPos						
EM_F	inalSTEMCapObligations					
EM_Ir	nitBiltConsumers					
EM_Ir	EM_InitNetBiltPos					
EM_I	nitSTEMCapObligations					
		-				

Figure 22 By Trade Date display results

y Report By Trade Date	EM_LoadFcstBilt				
Date 08/10/2015 Refresh	TRADING DAY	HOUR OF DAY	TRADING INTERVAL	FORECAST (MWh)	TOTAL SCHEDULED BLT QUANTITY (MWh)
EM BiltSubmission	08/10/2015	8	1	1,055.989	1,073.405
	08/10/2015	8	2	1,063.332	1,063.368
EM_CommissioningTest	08/10/2015	9	1	1,061.280	1,050.301
EM_DispMeritOrder	08/10/2015	9	2	1,056.241	1,036.081
EM ExPostQuitages	08/10/2015	10	1	1,056.836	1,039.891
- En_Es oslosityes	08/10/2015	10	2	1,060.752	1,034.515
EM_FacilityLimit	08/10/2015	11	1	1,070.269	1,025.157
EM_FinalNetBiltPos	08/10/2015	11	2	1,082.978	1,014.591
EM EinalSTEMCarObligations	08/10/2015	12	1	1,093.861	1,007.930
C Em_ritaloTEmCapOUlgatoris	08/10/2015	12	2	1,104.083	1,006.616
EM_InitBiltConsumers	08/10/2015	13	1	1,120.616	1,013.452
EM_InitNetBiltPos	08/10/2015	13	2	1,138.139	1,019.416
EM InitSTEMC ap Obligations	08/10/2015	14	1	1,155.193	1,028.273
C Em_inito remotapoungations	08/10/2015	14	2	1,172.647	1,043.289
EM_LoadFcst	08/10/2015	15	1	1,188.060	1,064.817
EM_LoadFcstBilt	08/10/2015	15	2	1,201.593	1,088.745
EM NonBalDispMaritOrder	08/10/2015	16	1	1,213.866	1,117.064
C Em_HolibalDispinelitorder	08/10/2015	16	2	1,220.825	1,149.755
EM_OperLoad	08/10/2015	17	1	1,223.326	1,184.968
EM_PartLimit	08/10/2015	17	2	1,228.568	1,220.008
	08/10/2015	18	1	1,242.725	1,246.167
C EM_RPSINCONV	08/10/2015	18	2	1,270.241	1,261.059
EM_ResPlan	3	p	age 1 of 1		
rticipant Select •		,	ayurori		
XML CSV					

### 6.3 Download Reports

The MPI supports XML and CSV download formats.

To download the report data to a file, choose which format to download, and click on the appropriate button. Users can choose to download the reports directly or view the report first and then initiate the download.

Multiple reports are available for download as a single ZIP file which contains each of the individual reportfiles for the selected date. Only 30 reports can be downloaded at once.

The default file names for the data are shown in Table 13.

#### Table 13 Default file names for report download

Download Format	File Name Format
XML	<ul> <li>{Reportname}_{participant}_{ddmmyyyyhhmmss}.xml</li> <li>Reportname: name of the report being downloaded</li> <li>Participant: name of the Participant to which the report belongs</li> <li>ddmyyyyhhmmss: download time</li> </ul>
CSV	<ul> <li>{Reportname}_{participant}_{ddmmyyyyhhmmss}.csv</li> <li>Reportname: name of the report being downloaded</li> <li>Participant: name of the Participant to which the report belongs</li> <li>ddmyyyyhhmmss: download time</li> </ul>
ZIP	Reports_{ddmmyyyyhhmmss}.zip <ul> <li>ddmmyyyyhhmmss: user initiated download time</li> </ul>

### 6.4 Report Help

Users are able to view a full list of available report names and descriptions by clicking on the orange question mark button at the top left of the Reports display (see Figure 23).

This provides the list of reports with the report name, title and category (see Figure 24).

#### Figure 23 Report Help button



#### Figure 24 Report Help results

Reports				
Report name	Report title	Report category		
PRM_Indicator	Prudential Risk Indicators (MP)	DAILY		
EM_LoadFcst	Operational Load Forecast	DAILY		
EM_BiltStndConv	Bilateral Contract Standing Data Conversion	DAILY		
EM_InitNetBiltPos	Initial Net Bilateral Position(MP)	DAILY		
EM_InitBiltConsumers	Initial Bilateral Consumer Information (MP)	DAILY		
EM_AncServ	Ancillary Service Energy excluded from STEM (MP)	DAILY		
EM_AncServFacilities	Ancillary Service Facilities (MP)	DAILY		
EM_SchPlannedOutages	Schedule of Outages (SWIS)	DAILY		

## 6.5 Report Attributes

The Report Attributes component of WEMS has been removed.

The energy price limits can be viewed on the <u>AEMO Website</u>.

Gate Closure information can be viewed here.

## 7 File Exchange

To access the File Exchange, select Energy Market > File Exchange (see Figure 25).

Selecting Balancing > File Exchange or LFAS > File Exchange will also redirect to this display.

The File Exchange allows users to make Bilateral Contracts and STEM Submissions in either XML or CSV format via the MPI Interface. A submission may consist of a single XML file, or a set of CSV files.

Detailed file specifications and templates can be found under Guides and Useful Information.

The functionality of the File Exchange dashboard components is explained in more detail in the sections below.

#### Figure 25 File Exchange dashboard

	Resource Plan								No. 10			
Exchange	[]	Upload History										
Upload Type STEM Subms Upload Format @ XML	sion - C csv	Date & Time	Uploaded By	Upload Type	File Type	File Name	Results File	Upload Format	Status	Intervals in File	Intervals Interv with w Errors Warnin	als Gate ith Closure gs
Upload Options	Admowledgement	-										
FilesXML File	BROWSE											
109-03930 I	CLEAN CO CO											
rch		Detail History										
om / To Date 29/03/2012 * 25	W03/2012 =	Date & Time	Messa	ge Code	Message	Type Mes	sage					

#### Table 14 File Exchange dashboard component descriptions

Item	Description
File Exchange	Provides a facility for uploading submissions to AEMO
Search	Provides a search facility for viewing historical submissions based on selected criteria
Upload History	Displays the file history based on selected search criteria
Detail History	Displays additional details of a selected historical upload selected from the Upload Historydashboard item

## 7.1 File Exchange Options

Depending on the Upload Format (XML or CSV), the File Exchange display will provide different fields and options (see Figure 26).

The default File Exchange display is for XML uploads.

For CSV uploads, the File Exchange display will change depending upon the type of submission selected in the Upload Type drop-down menu.

The File Exchange display fields are described in Table 15.

#### Figure 26 File Exchange display options for XML and CSV

ile Exchange		File Exchange		
Upload Type	STEM Submission	Upload Type	STEM Submission	*
Upload Format	• XML O CSV	Upload Format	🔘 XML 💽 CSV	
- Upload Options -		- Files		
	Download Adknowledgement	Facility Details		BROWSE
- Files		Ancillary Services		BROWSE
XML File	BROWSE	Supply Portfolio		BROWSE
		Demand Portfolio		BROWSE
	CLEAR 🖌 GO			
			8	CLEAR 🕜 GO

#### Table 15 File Exchange display field descriptions

Field Name	Field Description
Upload Type	Type of file to be uploaded: • Bilateral Contracts • STEM Submission
Upload Format	File format to be uploaded: <ul> <li>XML</li> <li>CSV</li> </ul>
File Type	Type of submission (does not apply to all Upload Types): <ul> <li>Standing</li> <li>Variation</li> </ul>
Upload Options	Options associated with Upload Types: • Allow Gate Closure Violations • Discard Entire File on Errors • Download Acknowledgement
XML File	Read-only display of the XML file name selected

## 7.2 XML Submissions

The steps to upload an XML file are:

- 1. Select the type of submission from the Upload Type drop-down menu.
- 2. Select the XML radio button.
- 3. If required, tick the Download Acknowledgement option (optional).
- 4. Click Browse and select the relevant file from the "Choose file to upload" window.

- 5. Once the file is selected, the file name of the selected file is displayed in the "XML File" text box.
- 6. Click Go to submit the file. If the user decides not to submit the file, click Clear.

### 7.3 CSV Submissions

For CSV submissions, the File Exchange display changes depending upon the type of submission selected from the Upload Type drop-down menu. The exception is Bilateral Contracts which use the same File Exchange display as the XML submissions.

The steps to upload a CSV file are:

- 1. Select the type of submission from the Upload Type drop-down menu.
- 2. Select the CSV radio button.
- 3. If required, tick the relevant Upload Options (optional) (see Table 15).
- 4. Click Browse and select the relevant file(s) from the "Choose file to upload" window:
- 4.1. Balancing Submissions consist of a single CSV file (see Figure 27). A Balancing Submission can be either a Standing submission, or a Variation submission which will overwrite a submission which had previously been made by the Participant for the Trading Intervals specified in the file.
- 4.2. Bilateral Contracts consist of a single CSV file that contains details for bilateral market submissions (see Figure 28).
- 4.3. LFAS Submissions consists of a single CSV file (see Figure 29).
- 4.4. STEM Submissions require four CSV files to be uploaded (see Figure 30 and Table 16).
- 5. Once the file(s) is selected, the file name(s) of the selected file(s) is displayed in the text box.
- 6. Click Go to submit the file(s). If the user decides not to submit the file(s), click Clear.

Upload Type	Balancing Submission 🔹
Upload Format	🔵 XML 💽 CSV
File Type	<ul> <li>Standing</li> <li>Variation</li> </ul>
— Upload Options —	
	Allow Gate Closure Violations
	<ul> <li>Discard Entire File on Errors</li> </ul>
- Files	
Balancing Submission	BROWSE
	CLEAR OG GO

#### Figure 27 Balancing Submission in CSV format

#### Figure 28 Bilateral Contracts in CSV format

File Exchange			
Upload Type	Bilateral Co	ntracts	-
Upload Format	C XML	CSV	
Files			
- 1103			
Bilateral Contracts			BROWSE
		Cur.	
		V CE	

#### Figure 29 LFAS Submissions in CSV format

Upload Type	LFAS Submission
Upload Format	XML OCSV
File Type	Standing O Variation
- Upload Options -	
	Allow Gate Closure Violations
	Discard Entire File on Errors
- Files	
LFAS Submission	BROWSE
	CLEAR 🗸 GO

#### Figure 30 STEM Submissions in CSV format

opioad Type	STEM Sub	omission	-
Upload Format	C XML	€ CSV	
- Files			
Facility Details			BROWSE
Ancillary Service Details			BROWSE
Supply Portfolio			BROWSE
Demand Portfolio			BROWSE

#### Table 16 STEM Submissions file name descriptions

File Name	File Description
Facility Details	Facility details, standing submission information
Ancillary Service Details	Ancillary Services
Supply Portfolio	Supply portfolio curve
Demand Portfolio	Demand portfolio curve

## 7.4 File Exchange Search

The File Exchange Search display enables users to search for historical submissions using the relevant search criteria provided in Table 17.

The steps to search for historical submissions are:

- 1. Click on Advanced Options from the File Exchange Search display (see Figure 31).
- 2. Enter the required search criteria. To clear all search criteria, click the Clear button.
- 3. Once the user has completed the search criteria, click the Go button.
- 4. The results are displayed in the Upload History section.

#### Figure 31 File Exchange Search display

Upload Type	STEM Subm	nission	-	
Upload Format	C XML	C csv		
- Upload Options -				
	Downloa	d Acknowledge	ement	
- Files				
XML File	-		🔁 Ba	ROWSE
				-
		0	CLEAR	C0
Search				
From / To Date	20040 -	20/02/2012	-	
30/0	3/2012	30/03/2012		

Search		
From / To Date	1/02/2012 🔻 21/02/2012	-
Uploaded By	All	-
Status	All	-
Error Type	All	-
Upload Type	All	-
File Type	All	-
Upload Format	All	-
File Name Search	ż	
	CLEAR	Go

#### Table 17 File Exchange Search fields description

File Name	File Description
From / To Date	Date range of submissions
Participant	Participant that made the submission
Uploaded By	User that uploaded the submission
Status	Status of a submission: • Successful • Failed
Error Type	Error type: • Errors • Warning • Gate Closure
Upload Type	Type of file uploaded: • Bilateral ContractsSTEM Submission • Balancing Submission • LFAS Submission • Resource Plan (for historical purposes) • STEM Submission
Upload Format	XML or CSV
File Name Search	Free-text file name search (wildcard options e.g. *.*)

### 7.5 File Exchange Upload History

The Upload History display defaults to displaying submissions for the current day (see Figure 32). The display can be filtered by using the File Exchange Search (see section 7.4).

To download the contents of a historical submission, click on the file name under the File Name column.

To download the results file of a historical submission, click on the file name under the Results File column.



Date & Time	+ Uploaded By	Upload Type	File Type	File Name	Results File	Upload Format	Status	Intervals in File	Intervals with Errors	Intervals with Warnings	Gate Closure
6/02/2012 15:49:23	Ben Tan	STEM Submission		Stem Submit 14 s.csv	Result xml	CSV	Failed	0	0	0	C
6/02/2012 15:49:23	Ben Tan	STEM Submission		Stem Submit 14 d.csv	Result.xml	CSV	Failed	0	0	0	1
6/02/2012 15:48:43	Ben Tan	STEM Submission		Stem Submit 1 Actual.xr	ml Result.xml	XML	Failed	0	0	0	
6/02/2012 15:20:04	Ben Tan	STEM Submission		Stem_Submit_1_Actual.xr	ml Result.xml	XML	Failed	0	0	0	8
6/02/2012 15:19:01	Ben Tan	STEM Submission		Stem Submit 1 Actual x	ml Result.xml	XML	Failed	0	0	0	
6/02/2012 15:18:12	Ben Tan	STEM Submission		Stem Submit 1 Actual xr	ml Result.xml	XML	Failed	0	0	0	
6/02/2012 15:16:46	Ben Tan	STEM Submission		Stem Submit 1 Actual x	ml Result xml	XML	Failed	0	0	0	
6/02/2012 15:14:59	Ben Tan	STEM Submission		Stem_Submit_1_Actual.xr	ml Result.xml	XML	Successful	0	0	0	
6/02/2012 14:39:43	Ben Tan	STEM Submission		Stem Submit 1.xml	Result.xml	XML	Failed	0	0	0	
6/02/2012 14:38:59	Ben Tan	STEM Submission		Stem_Submit_1.xml	Result.xml	XML	Failed	0	0	0	
6/02/2012 14:34:41	Ben Tan	STEM Submission		Stem_Submit_1.xml	Result.xml	XML	Failed	0	0	0	
6/02/2012 14:24:29	Ben Tan	STEM Submission		Stem Submit 14 s.csv	Result Stem Submit 14 s.xml	CSV	Failed	0	0	0	
6/02/2012 14:24:29	Ben Tan	STEM Submission		Stem_Submit_14_d.csv	Result_Stem_Submit_14_d.xml	CSV	Failed	0	0	0	
6/02/2012 14:21:42	Ben Tan	STEM Submission		Stem Submit 14 s.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 14:21:42	Ben Tan	STEM Submission		Stem_Submit_14_d.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 14:20:34	Ben Tan	STEM Submission		Stem_Submit_14_s.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 14:20:34	Ben Tan	STEM Submission		Stem_Submit_14_d.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 14:19:20	Ben Tan	STEM Submission		Stem Submit 14 s.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 14:19:20	Ben Tan	STEM Submission		Stem_Submit_14_d.csv	Result.xml	CSV	Failed	0	0	0	
6/02/2012 13:56:09	Ben Tan	STEM Submission		Stem_Submit_14_s.csv	Result.xml	CSV	Successful	0	0	0	
6/02/2012 13:56:09	Ben Tan	STEM Submission		Stem Submit 14 d.csv	Result.xml	CSV	Successful	0	0	0	
0000010 10-22-00	Dan Tan	CTEM Culominaian		Cham Cubmit 14 fanu	Donull und	001/	Eallad	0		0	

## 7.6 File Exchange Detail History

The Detail History display provides additional information about an upload selected in the Detail History display (see Figure 33).

#### Figure 33 File Exchange Detail History

il History				
ate & Time	Message Code	Message Type	Message	
3/11/2015 19:25:10	10001	Info	File Uploaded to AEMO Server - Starting File Processing	
3/11/2015 19:25:10	10002	Info	File Processing Completed Successfully	

## 8 Web Services

Users have the option to setup a Web Service to facilitate their trading requirements for the STEM and Bilateral Markets.

Web Service requests are delivered using the standard web service protocol SOAP (Simple Object Access Protocol).

In addition to making submissions via Web Services, users are also able to extract the reports available in the MPI through web service definition files (WSDL).

Refer to the <u>WEMS Report and Web Service Specification</u> document for more information.

To utilise Web Services, a certificate must be obtained from AEMO. If you require a new certificate, please contact Market Operations (WA) at <u>wa.operations@aemo.com.au.</u>

WEMS web certificates are issued by DigiCert. Market Participants using web services should ensure their systems trust certificates issued by this authority.

## Glossary

Term	Definition
AEMO	Australian Electricity Market Operator
LFAS	Load Following Ancillary Services
МРА	Market Participant Administrator
MPI	Market Participant Interface
Participant	In the context of this document, Participant is used in general terms to mean any registered Rule Participant, unless otherwise specified
RCM	Reserve Capacity Mechanism
RSA SecurID Token	Third party security token for performing two-factor authentication for a user to a network source
STEM	Short Term Energy Market
SWIS	South West Interconnected System
WEM	Wholesale Electricity Market
WEMS	Wholesale Electricity Market Systems