

WEMS MPI User Guide: Prudential and Settlement Services

August 2023

Version 1





Important notice

Purpose

AEMO has prepared this document to provide information about the Prudential and Settlement Services (PaSS) 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

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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. It provides information about the Prudential-Settlements portal, which is accessible via WEMS MPI. The Prudential-Settlements portal is used for the following processes:

- Accessing invoicing and settlement data.
- Monitoring prudential exposure.
- Accessing information about Credit Limits and Credit Support.
- Managing prepayments.
- Managing Notices of Disagreement.

2 System Requirements

Please refer to the <u>WEM 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 Prudential-Settlements portal is accessed by logging into WEMS MPI (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 (see Figure 1).

The RSA SecurID token can be identified by the RSA SecurID dark blue and red logo with white writing (see Figure 2).

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 on the MPI login page or by emailing <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. Individual roles and user accounts are managed by each MPA.

To access the Prudential-Settlements portal, select Settlements > Prudential-Settlements (see Figure 3).

		RSA SecuriD
Welcome to W	EMS	
Log in to access WEMS		
CE (RSA) 1559 7559.)	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 1 WEMS MPI login screen

Figure 2 RSA SecurID token example



Figure 3 Navigating to the Prudential-Settlements interface

$\leftarrow \rightarrow$	C 🗘	wems.aemo.c	om.au/mpi/mpi-ui/s	settlements/	prudent	al.action			
Home	Notifications	Energy Market	Reserve Capacity	Balancing	LFAS	Registration (Balancing)	Registration (SCED)	Settlements Reports	Configuration
								Prudential-Settlements	
Home > Set	tiements > Prudent	al-Settlements						Download Files	1
								Timeline	
	SETTLEMEN	TS	PRUDENTIALS		CRE	DIT SUPPORT	FORMS	Archived Portal	N
	o e i i i e e i i e e i		1 HODEHTIMEO		01121		1 011110	Archived Prudential Reports	i i

4 Prudential Settlements

This section should be read in conjunction with the <u>WEM Procedure: Settlement</u> and <u>WEM Procedure:</u> <u>Prudential Requirements</u>

For information about Settlements, please contact WA Prudentials and Settlements at <u>wa.settlements@aemo.com.au</u>.

4.1 Calculation Formulation

The Wholesale Electricity Market Prudential and Settlement Service (WEM PaSS) is built on the basis of the independently certified WEM Metering, Settlement and Prudential Calculation documents (the "Formulation"). This document creates a mathematically accurate representation of the WEM Rules, including:

- Representation of sets for use within the document;
- Mathematical equation representation of the WEM Rules;
- Specifications for variables used by the WEM PaSS system;
- Trading Margin calculation for Participants on a given Trading Day;
- Weekly (WEM), Monthly (NSTEM) and Weekly (STEM) settlement; and
- Input estimation methodology for Prudential calculations.

This Formulation is the foundation for the prudential and settlement calculations implemented in AEMO's software.

An extract of the Formulation is shown in Figure 4.

The latest versions of the Formulation can be found under <u>Settlement Technical Guides¹</u> on the AEMO Website.

¹ https://aemo.com.au/energy-systems/electricity/wholesale-electricity-market-wem/procedures-policies-and-guides/guides/settlement-technical-guides

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Figure 4 Example of the STEM Payments and Charges section in the Formulation

4.4.1 STEM Payments and Charges

These equations are based on the equations stated in 9.6.1. They have been modified to aggregate to a Trading Day and to separate quantities into supply and demand.

$$STEMSAS_P_D(p, d) = \sum_{i \in I(d)} STEMSAS_P_J(p, i)$$
 (102)

$$STEMSAD_P_D(p, d) = \sum_{i \in I(d)} STEMSAD_P_I(p, i)$$
 (103)

$$STEMSAS_P_I(p,i) = \begin{cases} STEMP_G_I(i) \times STEMSQ_P_I(p,i) & SSF_G_D(i) = 1\\ 0 & SSF_G_D(i) = 0 \end{cases}$$
(104)

$$STEMSAD_P_I(p,i) = \begin{cases} STEMP_G_I(i) \times STEMDQ_P_I(p,i) & SSF_G_D(i) = 1\\ 0 & SSF_G_D(i) = 0 \end{cases}$$
(105)

$$STEMSQ_P_I(p,i) = max(0, STEMQ_P_I(p,i) \times SSF_G_D(i))$$
(106)

 $STEMDQ_P_I(p, i) = -min(0, STEMQ_P_I(p, i) \times SSF_G_D(i))$ (107)

Variable	Units	SC	GR	Rule	Description	Ref
STEMSAS_P_D(p, d)	\$	Р	D	9. <mark>6.1</mark>	Settlement amount for energy sold in STEM for Market Participant p in Trading Day d	(102)
STEMSAD_P_D(p, d)	\$	Р	D	9.6.1	Settlement amount for energy pur- chased in STEM for Market Partici- pant p in Trading Day d	(103)
STEMSAS_P_I(p, i)	\$	Р	I	9.6.1	Settlement amount for energy sold in STEM for Market Participant p in Trading Interval i	(104)
STEMSAD_P_I(p, i)	\$	Р	I	9.6.1	Settlement amount for energy pur- chased in STEM for Market Partici- pant p in Trading Interval i	(105)
STEMSQ_P_I(p, i)	MWh	Р	1		Energy sold in STEM by Market Par- ticipant p in Trading Interval i	(106)
STEMDQ_P_I(p, i)	MWh	Р	I		Energy bought in STEM by Market Participant p in Trading Interval i	(107)
STEMQ_P_I(p, i)	MWh	Р	I	6.9.13(b), 6.9.13(c), 6.10.2	Energy purchased (sold) in STEM by Market Participant p in Trading In- terval i	Ι
SSF_G_D(d)	Flag	G	D		0 if STEM was suspended in Trading Day d, and 1 otherwise	I
STEMP_G_I(i)	\$/MWh	G	I	6.9.7, 6.10.2	STEM Clearing Price declared for Trading Interval i	Ι
I(d)	{}	G	D		Set of Trading Intervals in Trading Day d	Ι

4.2 Settlements

This section applies to Invoices, including Adjustment Invoices, issued on or after 1 August 2021.

This section should be read in conjunction with the <u>WEM Procedure: Settlement</u>, the <u>WEM Settlement</u> <u>Statement and Invoice Technical Guide</u> and the <u>WEM Metering Settlement and Prudential</u> <u>Calculations Formulation</u>.

To access the Settlements dashboard, select **Prudential-Settlements portal > Settlements**.

The Settlements dashboard provides an overview of a Participant's WEM, Non-STEM and STEM settlement outcomes and provides access to the corresponding Settlement Statement Summary, Settlement Statement Detail, and Settlement Invoices.

The default display is the WEM tab for the current calendar year (see Figure 5). Change the market by toggling between the "WEM", "Non-STEM" and "STEM" tabs.

Change the calendar year using the "Year" drop-down menu.

Settlement outcomes are displayed according to the Invoice Period for the given market:

- WEM outcomes are displayed by Trading Week for the Initial, Adjustment 1, Adjustment 2 and Adjustment 3 settlements (see Figure 6).
- Non-STEM outcomes are displayed by Trading Month for the Initial, Adjustment 1, Adjustment 2 and Adjustment 3 settlements (see Figure 7).
- STEM outcomes are displayed by Trading Week (see Figure 8).

Note:

- The Settlements dashboard will only display a row with dollar values once Settlement Statements have been published for that Invoice Period.
- Settlement Invoices may be published at a different time or date to the Settlement Statements depending on the Settlement Cycle Timeline.

Figure 5 Settlements dashboard

SETTLEMENTS	PRUDENTIALS	CREDIT SUPPORT					
Market Participant			Year 2023		· Dov	VNLOAD AN INVOICE 🛓	
WEM NON-STEM	STEM						
Period From	Deviced To						
	Period To	Invoice Period	Initial	Adjustment 1	Adjustment 2	Adjustment 3	Final Outcome
01/10/2023	07/10/2023	TW 01 OCT 2023	Initial \$1,295,935.28	Adjustment 1	Adjustment 2	Adjustment 3	\$1,295,935.28
01/10/2023	07/10/2023 14/10/2023	TW 01 OCT 2023 TW 08 OCT 2023	Initial \$1,295,935.28 \$1,292,393.49	Adjustment 1	Adjustment 2	Adjustment 3	Final Outcome \$1,295,935.28 \$1,292,393.49
01/10/2023 08/10/2023 15/10/2023	07/10/2023 14/10/2023 21/10/2023	TW 01 OCT 2023 TW 08 OCT 2023 TW 15 OCT 2023	Initial \$1,295,935.28 \$1,292,393.49 \$1,288,630.05	Adjustment 1	Adjustment 2	Adjustment 3	Final Outcome \$1,295,935.28 \$1,292,393.49 \$1,288,630.05

Figure 6 WEM display

WEM	NON-STEM	ST	EM	
Period From	n		Period To	Invoice Period
01/10/20	23		07/10/2023	TW 01 OCT 2023
08/10/20	23		14/10/2023	TW 08 OCT 2023
15/10/20	23		21/10/2023	TW 15 OCT 2023

Figure 7 Non-STEM display

WEM NON-STEM	STEM	
Period From	Period To	Invoice Period
01/01/2023	31/01/2023	Jan 2023
01/02/2023	28/02/2023	Feb 2023
01/03/2023	31/03/2023	Mar 2023
01/04/2023	30/04/2023	Apr 2023
01/05/2023	31/05/2023	May 2023

Figure 8 STEM display

WEM NON-STEM		
Period From	Period To	Invoice Period
05/01/2023	11/01/2023	TW 1/23
12/01/2023	18/01/2023	TW 2/23
19/01/2023	25/01/2023	TW 3/23
26/01/2023	01/02/2023	TW 4/23

4.2.1 Download Settlement Statement Summary, Settlement Detail and Invoices

The Prudential-Settlements portal supports CSV, JSON and PDF download formats depending on the data.

- Settlement Statement Summary is provided as a single CSV file for the Trading Week or Trading Month.
- Settlement Statement Detail ² is provided as a single ZIP file containing one CSV file for each day in the Trading Week or Trading Month.
- WEM Settlement Invoices are provided as a single PDF.
- Non-STEM and STEM Settlement Invoices are provided as a single PDF or JSON file.

The steps to download settlement data to a file are:

- 1. Click on the dollar amount for the WEM/Non-STEM/STEM Invoice Period (see Figure 9).
- 2. Select the required data and format (see Figure 10):
- Settlement Statement Summary: contains each line item found on the Invoice (see Figure 11).
- **Settlement Statement Detail:** contains all values used as inputs and the values resulting from the calculated variables (see Figure 12).
- **Invoice:** contains an itemised list of payments and charges associated to a trading period (see Figure 13 and Figure 14)
- 3. Click the Download button.

The default file names for the settlement data are provided in Table 1.

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² Prior to 1 August 2021, Settlement Statement Detail was known to Participants as the PIR.

Settlement variables align with the <u>WEM Metering Settlement and Prudential Calculations Formulation</u>. Refer to the <u>WEM Settlement Statement and Invoice Technical Guide</u> for information on understanding thecontent of Statements and Invoices.

Note:

• Download may take a while depending on the selection and will continue after the window is closed.

Figure 9 Settlements display with a published Settlement Statement

	WEM	NON-STEM	STEM		
Γ	Period Fr	om	Period To	Invoice Period	Initial
L	01/10/2	.023	07/10/2023	TW 01 OCT 2023	\$1,295,935.28

Figure 10 Download dialog for Settlement data (WEM)

D	ownload a document
I	Document Type
	Settlement Statement Summary (CSV)
	Settlement Statement Detail (ZIP)
	Invoice (PDF)
	CLOSE × DOWNLOAD ±

Figure 11 Example of TW 01 Oct 2023 WEM Initial Settlement Statement Summary for Participant A

1 Run	Id, PublishedAt, MarketService, Designation	,Per	od PeriodErom PeriodTo ParticinantCod	la Vaniabla Timastama D On C GET Applicable Value
2 502	00 2022 00 01T1E-2E-27 WEN TNITTAL TH 01		touji el iouri oligi el iouroji ul ereipulleoo	e, variable, finescamp, P of C, GST Applicable, value
2 502	00,2025-00-01115.55.27,WEM,INTITAL, NW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,INTC_P_D,1/10/2023,Charge,N,183374.5112
3 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,RRpayment_P_D,1/10/2023,Payment,Y,16.789
4 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,RoCoFpayment_P_D,1/10/2023,Payment,Y,12098.13
5 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,CLpayment_P_D,1/10/2023,Payment,Y,19465.12
6 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,CRpayment_P_D,1/10/2023,Payment,Y,187604.8508
7 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,EUR_P_D,1/10/2023,Charge,Y,1123.789
8 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,EUP_P_D,1/10/2023,Payment,Y,183378.3236
9 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,ETDA_P_D,1/10/2023,Charge,Y,0
10 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,ETSA_P_D,1/10/2023,Payment,Y,0
11 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,RLpayment_P_D,1/10/2023,Payment,Y,0
12 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,SRCC_P_D,1/10/2023,Charge,Y,0
13 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,CCR_P_D,1/10/2023,Charge,Y,562.13
14 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	OCT	2023,1/10/2023,7/10/2023,Participant	A,CAPREBSA_P_D,1/10/2023,Payment,Y,9586.923
15 502	80,2023-08-01T15:35:27,WEM,INITIAL,TW 01	ОСТ	2023,1/10/2023,7/10/2023,Participant	A,STEMSAD_P_D,1/10/2023,Charge,Y,1068.451

Figure 12 Example of TW 01 Oct 2023 WEM Initial Settlement Statement Detail for Participant A

1	RunId, PublishedAt, MarketService, Designation, Period, PeriodFrom, PeriodTo, ParticipantCode, Settlement Trading Day, Variable, Scope, Timestamp, Value
2	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,CFRATE_G_FY,Global,2023-07-01,"[0.0718]"
3	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,MFRATE_G_FY,Global,2023-07-01,"[0.4913]"
4	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,RFRATE_G_FY,Global,2023-07-01,"[0.1727]"
5	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,AdjONULLFlag_G_W,Global,2023-10-01,"[1.0]"
6	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,Adj1NULLFlag_G_W,Global,2023-10-01,"[1.0]"
7	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,Adj2NULLFlag_G_W,Global,2023-10-01,"[1.0]"
8	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,Adj3NULLFlag_G_W,Global,2023-10-01,"[1.0]"
9	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,ESTIMATIONFlag_G_W,Global,2023-10-01,"[0.0]"
10	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,IRCR_6_M,Global,2023-10-01,"[4482.00000000]"
11	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,IRCR1NullFlag_6_M,Global,2023-10-01,"[0.0]"
12	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,IRCR2NullFlag_6_M,Global,2023-10-01,"[1.0]"
13	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,IRCR3NullFlag_6_M,Global,2023-10-01,"[1.0]"
14	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,RCP_6_CY,Global,2023-10-01,"[115780.247]"
15	50280,2023-08-01T15:35:27,WEM,INITIAL,TW 01 OCT 2023,2023-10-01,2023-10-07,IMOWA,2023-10-02,RCP_6_M,Global,2023-10-01,"[8829.10583333]"



	Payment Summary Wholesale Electricity Market	ABN 94 072 010 327 Level 45 152 St Georges Terrace Perth WA 6000 PO Box 7096 Cloisters Square Perth WA 6850 T 1300 989 797, Option 1 E wa.operations@aemo.com		
		Summary:	68309	
		Issued Date: Due Date:	31/10/2023 02/11/2023	
WEM TW 01 OCT 2023	- Initial			
Description	- Initial		Amount	

Figure 14 Example of March 2021 NSTEM Initial Settlement Invoice JSON for Participant A

```
{
 "id" :
 "party" : {
   "id" :
   "name" :
   "addressLinel" :
   "addressLine2" :
   "abn" :
 1.
 "invoiceDate" : "2021-05-10",
 "dueDate" : "2021-05-10",
 "market" : "NSTEM",
  "tradeMonth" : "2021-03",
 "adjustment" : 0,
 "title" : "NSTEM March 2021 - Initial",
  "paymentSummary" : {
   "lineItems" : [ {
     "code" : "LFMC_P_X",
     "description" : "Charge for the cost of Load Following Services",
     "amount" : 0.00,
     "gstApplicable" : true
   }, {
     "code" : "LFCC P X",
     "description" : "Charge for the cost of Capacity associated with Load Following",
     "amount" : 0.00,
     "gstApplicable" : true
   }, {
     "code" : "INTNSTEMP P X",
     "description" : "Payment for Interest associated with NSTEM",
     "amount" : 0.00,
     "gstApplicable" : false
   }, {
     "code" : "INTNSTEMC P X",
     "description" : "Charge for Interest associated with NSTEM",
     "amount" : 0.00,
     "gstApplicable" : false
   }, {
     "code" : "IMLR P X",
     "description" : "Charge for Intermittent Load Refunds",
     "amount" : 0.00,
```

Table 1 Default file names for Settlement data file download

Download Format	File Name Format						
CSV	{participant}_SUMMARY_{market}_{periodStart}_{designation}_{timestamp}.csv						
	participant: short name for the Participant						
	market: STEM NSTEM WEM						
	periodStart: first day of the Trading Week or Trading Month as yyyymmdd						
	designation: INITIAL ADJ1 ADJ2 ADJ3						
	• timestamp: user initiated download time as yyyymmddhhmmss						
ZIP	{participant}_DETAILS_{market}_{periodStart}_{designation}_{timestamp}.zip						
	participant: short name for the Participant						
	market: STEM NSTEM WEM						
	 periodStart: first day of the Trading Week or Trading Month as yyyymmdd 						
	designation: INITIAL ADJ1 ADJ2 ADJ3						

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Download Format	File Name Format						
	• timestamp: user initiated download time as yyyymmddhhmmss						
CSV in ZIP	{market}_{participant}_{tradingDay}_{designation}.csv						
	market: STEM NSTEM WEM						
	participant: short name for the Participant						
	tradingDay: Trading Day within the Trading Week or Trading Month as yyyymmdd						
	designation: INITIAL ADJ1 ADJ2 ADJ3						
PDF	INV_{invoiceNumber}_{participant}_yyyy-mm-dd.pdf						
	invoiceNumber: unique id of the invoice						
	participant: short name for the Participant						
	• yyyy-mm-dd: date the invoice was generated by AEMO						
JSON (STEM and	INV_{invoiceNumber}_{participant}_yyyy-mm-dd.json						
Non-SIEM only)	invoiceNumber: unique id of the invoice						
	participant: short name for the Participant						
	yyyy-mm-dd: date the invoice was generated by AEMO						

4.2.2 Download Invoice by Invoice Number

The steps to download a Settlement Invoice by a known invoice number are:

- 1. Select Prudential-Settlements portal > Settlements.
- 2. Click the Download an Invoice button (see Figure 15).
- 3. Type in the invoice number (see Figure 16).
- 4. Click the Download button.

Figure 15 Download an Invoice button

SETTLEMENTS	PRUDENTIALS	CREDIT SUPPORT
Market Participant:	Year 2020	COWNLOAD AN INVOICE 单

Figure 16 Download an Invoice enter invoice number

Download an Invo	bice	
Enter an Invoice #		
	CLOSE X	DOWNLOAD PDF 👲

4.2.3 Archived Settlements Portal

This section applies to Invoices, including Adjustment Invoices, issued prior to 1 August 2021.

To access settlement information for Invoices issued prior to 1 August 2021, select **Settlements > Archived Portal** (see Figure 17 and Figure 18).

Use the following tabs to select the required settlement information:

- Invoices
- Statements
- PIRs
- IRCR Log

Use the drop-down menu to select one of the following settlement mechanisms:

- DSM
- IRCR
- NSTEM
- STEM

Figure 17 Archived Settlements Portal menu

Hor	ne	Notifications	Energy Market	Reserve Capacity	Balancing	LFAS	Registration	Settlements	GPS	Reports	Configuration	Help	Logout
Home	> Set	tlements > Prude	ntial-Settlements					Prudential-Settlerr	ients				
		arements - Fridde	in an oether item of the					Download Files					
								Timeline					
								Archived Portal					
								Archived Prudent	ial Report:	s			

Figure 18 Archived Settlements Portal display

Notifications Energy Market Reserve Capacity E	lalancing LFAS Regi	stration Settlements Reports (Configuration Help	Logout					wom
								2	WIDELIE PECTOLY THREE
Invoices Statements PIRs IRCR Logs									
			1-1			(a)	(Teres COL)		
Market NSTEM 💌 💿 Invoice	Date 💮 Trade Date 💮 Inv	oke Number From: 01-02-2019	то:	28-02-2019	Adjustment A	4LL - []	Filter		
Market, NSTEM (*) (*) Invoice	Date 🔿 Trade Date 🔿 Inv Size	oke Number From: 01-02-2019 Description	To:	28-02-2019	Adjustment - A	ALL - · · ·	Filter		
Market NSTEM	Date O Trade Date O Inv Size 5.77 Kb	Description NSTEM December 2018 - Initial	To:	28-02-2019 * Invoice Date 06-02-2019	Adjustment - A Due Date 5 12-02-2019	ALL - T	Filter		
Mariati NSTEM (*) (*) Involve	Date Trade Date Inv Size 5.77 Kb 168.27 Kb	Description NSTEM December 2016 - Initial NSTEM December 2016 - Initial	To:	28-02-2019 * Invoice Date 06-02-2019 08-02-2019	Adjustment - A Due Date 1 12-02-2019 12-02-2019	ALL - T	Filter		

4.3 Prudential Monitoring

This section applies to Prudential information for Trading Days on or after 24 August 2020.

This section should be read in conjunction with the <u>WEM Procedure: Prudential Requirements</u> and the <u>WEM</u> <u>Metering Settlement and Prudential Calculations</u> formulation.

To access the Prudential display, select **Prudential-Settlements portal > Prudential**.

This display provides a graph of the Participant's prudential performance (see Figure 22). There are three elements to this functionality, listed from top to bottom of the screenshot:

- A graph of the Market Participant or Network Operator's prudential data
- A period selector (based on the Market Participant or Network Operator's Trading Margin)
- A table of the data used to drive the graph and period selector.

Below this functionality there is an additional table (see Figure 23) which provides a breakdown of Cumulative Estimated Exposure by invoice period. For example, for the forecast exposure on 2 October 2023, there are 61 days of Non-STEM exposure, 3 days of STEM and 2 days of WEM exposure contributing to the Cumulative Estimated Exposure value. This is broken down into the following invoicing periods:

- 31 days of Non-STEM exposure in August 2023
- 30 days of Non-STEM exposure in September 2023
- 3 days of STEM exposure in TW 39/23
- 2 days of WEM exposure in TW 01 Oct 2023

The As-at radio button determines whether the breakdown is of the current Outstanding Amount calculation or the forecast Outstanding Amount calculation.

At the bottom of the display (see Figure 23) three buttons are provided that allow the underlying data used in the Outstanding Amount calculation to be downloaded for the latest As of Date. Each button provides a compressed zip file containing one or more CSV files with details from the calculation.

4.3.1.1 Download Summary file

The Prudential Summary file contains the summary information of the calculation at the highest level of the calculation. This data is contained within a single file, which contains data for each market (STEM, Non-STEM and WEM) for each Trading Day within the exposed period. This data is at a similar level to the line items on Invoices (see Figure 19 and Section 4.2).

4.3.1.2 Download Details file

The Prudential Details file contains the detailed information of the calculation including all values used as inputs and the values resulting from the calculated variables under the WEM Rules. This data is presented in multiple files with a single file relating to a market (STEM, Non-STEM or WEM) for a single Trading Day. This data is intended to be used by Participants in conjunction with the <u>WEM Metering Settlement and Prudential</u> <u>Calculations</u> formulation to allow them to reconcile the calculation. The data is at a similar level to the data in Settlement Detail (PIR) files (see Figure 20 and Section 4.2).

4.3.1.3 Download Estimation file

The Prudential Estimation file contains the detailed information of settlement input estimation calculations based on the proposed WEM Procedure: Prudential Requirements and detailed in the <u>WEM Metering</u> <u>Settlement and Prudential Calculations</u> formulation. This data is at a similar level to the Prudential Details file outlined above (see Figure 21).

Figure 19 Extract from a Prudential Summary file

1	As of Date, Participant, Market, Variable, Timestamp, P or C, GST Applicable, Value
2	"2020-06-23", "PARTYX", "NSTEM", "CASSR_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
3	"2020-06-23", "PARTYX", "NSTEM", "COFFC_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
4	"2020-06-23", "PARTYX", "NSTEM", "DIPT3_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
5	"2020-06-23", "PARTYX", "NSTEM", "LFMC_P_D", "2020-05-01", "Charge", "Y", "0.00000000"
6	"2020-06-23", "PARTYX", "NSTEM", "SRAC_P_D", "2020-05-01", "Charge", "Y", "0.00000000"
7	"2020-06-23", "PARTYX", "NSTEM", "CASD_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
8	"2020-06-23", "PARTYX", "NSTEM", "COCC_P_D", "2020-05-01", "Charge", "Y", "0.00000000"
9	"2020-06-23", "PARTYX", "NSTEM", "CONC_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
10	"2020-06-23", "PARTYX", "NSTEM", "DSMCCSA_P_D", "2020-05-01", "Payment", "Y", "0.00000000"
11	"2020-06-23", "PARTYX", "NSTEM", "MFSAD_P_D", "2020-05-01", "Charge", "N", "0.00000000"
12	"2020-06-23", "PARTYX", "NSTEM", "RFSAD_P_D", "2020-05-01", "Charge", "N", "0.00000000"

Figure 20 Example from a Prudential Details file

1	As of Date, Participant, Settlement Trading Day, Variable, Scope, Timestamp, Value
2	"2020-06-23", "PARTYX", "2020-05-01", "MAXPGR_P_CY", "PARTYX", "2019-10-01", "0.0"
3	"2020-06-23", "PARTYX", "2020-05-01", "DSMRCP_G_CY", "Global", "2019-10-01", "16990.38"
4	"2020-06-23", "PARTYX", "2020-05-01", "DSMRCP_G_M", "Global", "2019-10-01", "1415.865"
5	"2020-06-23", "PARTYX", "2020-05-01", "RCP_G_CY", "Global", "2019-10-01", "126683.47"
6	"2020-06-23", "PARTYX", "2020-05-01", "RCP_G_M", "Global", "2019-10-01", "10556.95583333"
7	"2020-06-23", "PARTYX", "2020-05-01", "TDTM_G_M", "Global", "2019-10-01", "31.0"
8	"2020-06-23", "PARTYX", "2020-05-01", "MAXPGR_P_D", "PARTYX", "2019-10-01", "0.0"
9	"2020-06-23", "PARTYX", "2020-05-01", "RCP_G_D", "Global", "2019-10-01", "340.54696237"
10	"2020-06-23", "PARTYX", "2020-05-01", "DSMRCP_G_D", "Global", "2019-10-01", "45.67306452"
11	"2020-06-23", "PARTYX", "2020-05-01", "RCP_G_D", "Global", "2019-10-02", "340.54696237"
12	"2020-06-23", "PARTYX", "2020-05-01", "DSMRCP_G_D", "Global", "2019-10-02", "45.67306452"
13	"2020-06-23", "PARTYX", "2020-05-01", "MAXPGR_P_D", "PARTYX", "2019-10-02", "0.0"
14	"2020-06-23", "PARTYX", "2020-05-01", "MAXPGR P D", "PARTYX", "2019-10-03", "0.0"

Figure 21 Example from a Prudential Estimation file

1	As of Date, Participant, Settlement Trading Day, Variable, Scope, Timestamp, Value
2	"2020-06-23", "PARTYX", "2020-02-01", "_CASD_P_M", "PARTYX", "2020-02-01", "0.0"
3	"2020-06-23", "PARTYX", "2020-02-01", "_CASR_P_M", "PARTYX", "2020-02-01", "0.0"
4	"2020-06-23", "PARTYX", "2020-02-01", "CASL_P_M", "PARTYX", "2020-02-01", "0.0"
5	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 08:00", "0.0"
6	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 08:30", "0.0"
7	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 09:00", "0.0"
8	"2020-06-23","PARTYX","2020-02-01","CASSRQmwh_P_I","PARTYX","2020-01-31 09:30","0.0"
9	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 10:00", "0.0"
0	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 10:30", "0.0"
.1	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 11:00", "0.0"
.2	"2020-06-23", "PARTYX", "2020-02-01", "CASSRQmwh_P_I", "PARTYX", "2020-01-31 11:30", "0.0"

Figure 22 Prudential Monitoring display



Figure 23 Breakdown of Cumulative Estimated Exposure by invoice period

Prudential Settlement Statement					
As at: Current (01/10/2023) Forecast (02/10/2023)					
Participant	Market	Invoice Period	Adjustment Type	Туре	Invoice Amount
	NSTEM	Aug 2023	Initial	Estimate	-\$1,681,363.17
	NSTEM	Sep 2023	Initial	Estimate	-\$1,627,154.99
	STEM	TW 39/23	Initial	Estimate	\$0.00
	WEM	TW 01 OCT 2023	Initial	Partial Estimate	-\$3,121.70
				Rows per page: 10 -	1-4 of 4 < >

4.3.2 Archived Prudential Reports

This section applies to Prudential information for Trading Days prior to 24 August 2020.

To access Prudential information for Trading Days prior to 24 August 2020, select Settlements >Archived Prudential Reports (see Figure 24).

The Prudential Security display fields are described in Table 2.

Figure 24 Archived Prudential Security display



Table 2 Archived Prudential Reports display field descriptions

Dashboard Item	Description
Search	Allows the output to be Viewed on screen or Downloaded for set Date Ranges (3, 6, 12 or 24 months)
Help 💿	Provides definitions for items in the Prudential Security Graph and Table
Settlement Cycle	Provides the current STEM Days Exposed and NSTEM Days Exposed
Prudential Security Graph	Displays the currently selected Participants Prudential Performance over the last 6 months
Prudential Security Table	Displays the currently selected Participants Prudential security information

4.4 Credit Support

This section should be read in conjunction with the <u>WEM Procedure: Prudential Requirements.</u>To access the Credit Support display, select **Prudential-Settlements portal > Credit Support**.

The Credit Support display (see Figure 25) provides the breakdown of Participants' Credit Support instruments (Bank Guarantee or Security Deposits) and the history of Credit Limit as determined by AEMO.

4.4.1.1 Credit Support

The effective Credit Support is determined as any instruments currently held by AEMO as listed in the Credit Support section with the 'Held' or 'Received' state. The history of Credit Support instruments is available as indicated by the 'Returned' or 'Drawn Down' state, to indicate the action AEMO had taken for that instrument.

Note: With the release of Prudential Service 1.4 AEMO will enter the Credit Support instruments with their corresponding effective date and value. For Security Deposits only the Security Deposit Deed will be included with an additional record to adjust the balance to the value as at 20 August 2020.

While Bank Guarantees can only be actioned for the full quantity. Security Deposits may be partially returned/drawn down. This is shown by deducting any Security Deposits in a 'returned/drawn down' state from the total Security Deposits in a 'received' state.

4.4.1.2 Credit Limit

The Credit Limit table includes the history of Credit Limit determinations made by AEMO for the Participant. The history is limited to the current Credit Limit effective after 1 July 2020 and any subsequent determinations by AEMO. The effective Credit Limit is determined by the 'Effective Date' as applicable from that date until the next 'Effective Date'.

Note: With the release of Prudential Service 1.4 AEMO will enter the details of the Market Participant's last Credit Limit determination only.

Note: With the release of the 'Supporting Documents' functionality in Prudential Service 1.5

Figure 25 Credit Support display

lome Notifications Energy Mai	rket Reserve Capacity Balancing LFAS	S Registration Settlement	s Reports Configuration Help L	Logout		woms
e > Sellements > Prodential Sellemen	5					
	SETTLEMENTS			PRUDENTIALS	c	REDIT SUPPORT
Morket Porticipant			Credit Support \$10.00	Bank Suarantees: Security Deposits:	\$10.00 \$0.00	Credit Limit: \$10.00
Credit Support						
Bank Guarantees						
Amount	Effective From	Status	Effective To	Supporting Documents	Institution	Last Update
\$10.00	15th Nov 2020	Held	16th Nov 2020		ANZ	16th Nov 2020
Security Deposits						
Amount	Date of Deposit		Status	Supporting Bocuments	PPSR	Last Updale
\$300,000.00	13th Aug 2020		Received		123456	13th Aug 2020
\$300,000.00	14th Aug 2020		Returned			13th Aug 2020
Credit Limit						
Amount	Effective From	Trend	Supporting Doc	suments	Clause 2.37.5(k)	Last Update
\$10.00	2nd Nov 2020	\otimes			1	16th Nov 2020

4.5 Forms

This section should be read in conjunction with the <u>WEM Procedure: Prudential Requirements.</u>To access the Forms display, select **Prudential-Settlements portal > Forms.**

The Prudential-Settlements portal has a Forms tab which provides access to the following functionality (see Figure 26):

- **Prepayments:** to submit notification to AEMO of a voluntary prepayment funds transfer.
- Standing Prepayments: to activate or deactivate the standing prepayment agreement with AEMO.
- **Notices of Disagreement:** to submit any disagreement information in accordance with the disagreement deadline published in the Settlement Cycle Timeline.

Figure 26 Forms tab in Prudential-Settlements portal

SETTLEMENTS	PRUDENTIALS	CREDIT SUPPORT	FORMS

4.5.1 Prepayments Form

The standard Prepayment direction form has been integrated into the Forms tab of the Prudential-Settlements portal (see Figure 27).

A standard Prepayment direction may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Submit notification to AEMO of a voluntary Prepayment amount and date of payment; and,
- Track the status of a submission through the dashboard.

4.5.1.1 Submit a new Standard Prepayment Direction

The steps to submit a new Prepayment direction are:

- 1. Select the Prudential-Settlements portal > Forms > Prepayments tab.
- 2. Click the Submit button (see Figure 28).
- 3. Review the terms and conditions (see also Section 4.5.2).
- 4. Click Next to continue, or Cancel to exit without saving (see Figure 29).
- 5. Enter the following information in the dialog box (see Figure 30):
- **Prepayment Amount**: Enter the amount (in AUD) that will be transferred to AEMO. The amount must be greater than zero.
- **Date of Prepayment**: Select the date the payment will be provided to AEMO. The date must be today or in the future.
- **Austraclear or Bank**: Select the method by which the payment will be transferred to AEMO. Only one method is permitted per prepayment.
- 4. Click Submit to provide the information to AEMO, or Cancel to exit without saving.
- 5. A green confirmation message is displayed on the screen (see Figure 30). Click the "X" to close.
- 6. The submitted Prepayment is available to view in the Prepayments tab, with status "Payment Pending" (see Figure 31).

Note:

Once cleared funds are received by AEMO, the Participant's prepayment balance will be updated by the prescribed amount and the status will change to "Payment Received".

4.5.1.2 Withdraw an existing Prepayment

A Participant may wish to withdraw an existing Prepayment direction if they made an error with the prepayment amount or date of payment. An existing Prepayment direction can only be withdrawn if the status is "Payment Pending".

The steps to withdraw a Prepayment direction are:

- 1. Select the Prudential-Settlements portal > Forms > Prepayments tab.
- 2. Locate the relevant Prepayment direction and click the Withdraw button for that row (see Figure 32).
- 3. The withdrawn Prepayment direction is available to view in the Prepayments tab, with status "Withdrawn" (see Figure 33).
- 4. No further action can be taken on a withdrawn Prepayment direction.

Note:

Withdrawal only notifies AEMO that the participant no longer intends to transfer the prepayment amount to AEMO. It does not stop any funds transfers that are already in progress (i.e. If the participant has an Austraclear trade or a bank transfer authorised, then withdrawal will not prevent the trade from settling).

Figure 27 Prepayments tab

	SETTLEME	NTS	PRUDENTIALS	CREDIT SUPPORT	FORMS	
l	PREPAYMENTS	STANDING PREPAYMENT	NOTICE OF DISAGREEMENTS			

Figure 28 Submit button for new Prepayment

SETTLEM	ENTS	PRUDENTIALS	CREDIT SUPPORT	FORMS
PREPAYMENTS	STANDING PREPAYMENT	NOTICE OF DISAGREEMENTS		
SUBMIT 😭				٩

Figure 29 Standard Prepayment Direction Form page 1

	The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.
	The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:
	 reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Market Participant to AEMO; and being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.
	The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.
	The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.
	The Relevant Participant confirms and certifies that this Prepayment Direction is provided by an authorised representative of the Relevant Participant.
ľ	
	CANCEL NEXT

Figure 30 Standard Prepayment Direction Form page 2

<u>ش</u>	Short Name	0	Authorised Representative
AEMO:			
đ	Name Australian Energy Market Operator Limited		ABN 94 072 010 327
Ş	Prepayment Amount	÷	Date of Prepayment 15/09/2021
۲	Austraclear 🔘 Bank		

Figure 31 Confirmation of successful Prepayment submission

Thank you. This confirms receipt of your Prepayment Direction. Once cleared funds are received by AEMO, your prepayment balance will be updated by the prescribed amount.

Figure 32 Prepayments dashboard

EPAY N	IENTS STA	NDING PREPAYI	MENT NOTICE	OF DISAGREI	EMENTS			
SUBM	пд							(@
Id	Amount	Date of Prepayment	Payment Type	Submitted By	Status	Date Received	Updated By	Actions
	\$5,000.00	22/09/2021	BANK	<u>*</u> 7	Payment Pending	-		WITHDRAW
12								
12 11	\$25,000.00	17/09/2021	AUSTRACLEAR	<u></u>	Payment Pending	-		WITHDRAW
12 11 8	\$25,000.00 \$999.88	17/09/2021 10/09/2021	AUSTRACLEAR	<u>*</u> ?	Payment Pending Payment Received	- 10/09/2021	<u>.</u> *?	WINDRAW

Figure 33 Withdrawn Prepayment direction

PREPAYMENTS STANDING PREPAYMENT NOTICE OF DISAGREEMENTS								
SUBMIT	a							0
Id	Amount	Date of Prepayment	Payment Type	Submitted By	Status	Date Received	Updated By	Actions
16	\$1,000.00	16/09/2021	AUSTRACLEAR	<u></u>	With drawn	-		

4.5.2 Prepayment Terms and Conditions

The terms and conditions for a standard Prepayment direction as displayed in the WEMS MPI forms are reproduced below for convenience only and may differ from the current terms and conditions in WEMS MPI. AEMO reserves the right to update the terms and conditions in WEMS MPI at any time and the Market Participant or Network Operator should always review the applicable terms and conditions when submitting a prepayment:

A Market Participant or Network Operator (the Relevant Participant) may make a voluntary prepayment to AEMO at any time for the purposes of (a) reducing the Relevant Participant's Outstanding Amount; and (b) being applied to amounts payable by the Relevant Participant to AEMO, as specified in the Invoice, for the next Settlement Statement. A Relevant Participant must provide a completed prepayment direction and cleared funds to AEMO [WEM Procedure: Prudential Requirements].

Declaration:

Words having a defined meaning in the Wholesale Electricity Market Rules have the same meaning when used in this Prepayment Direction. The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Market Participant to AEMO; and
- being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this Prepayment Direction is provided by an authorised representative of the Relevant Participant.

4.5.3 Standing Prepayment Agreement Form

The Standing Prepayment agreement is integrated into the Forms tab of the Prudential-Settlements portal.

A Standing Prepayment agreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Activate a new Standing Prepayment agreement with AEMO.
- View the status of their Standing Prepayment agreement through the dashboard.
- Deactivate an active Standing Prepayment agreement or activate an inactive Standing Prepayment agreement.
- View the terms of the Standing Prepayment agreement.

Note:

• A Standing Prepayment agreement is effective immediately when the status is changed to "Active" and ceases immediately when the status is changed to "Inactive".

4.5.3.1 Activate a new Standing Prepayment

A Participant can only have one Standing Prepayment agreement with AEMO. If no agreement is recorded in the Prudential-Settlements portal, then a new agreement may be created and activated.

The steps to create and activate a new Standing Prepayment agreement are:

- 1. Select the Prudential-Settlements portal > Forms > Prepayments tab.
- 2. Click the Activate button (see Figure 35).
- 3. Review the terms and conditions (see also Section 4.5.4).
- 4. Click Next to continue, or Cancel to exit without saving (see Figure 36).
- 5. Review the hardcoded fields (see also Section 4.5.4).
- 6. Click Activate to activate the agreement with AEMO, or Cancel to exit without saving (see Figure 37).

- 7. The active Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status "Active" (see Figure 38).
- 8. To deactivate the agreement refer to Section.

Note: Once a Standing Prepayment agreement is activated:

- The terms and conditions can be viewed by clicking the View Terms button (see Figure 35), or by referring to Section 4.5.4.
- The Activate button is greyed out and can no longer be used.

4.5.3.2 Deactivate an existing Standing Prepayment

A Standing Prepayment can only be deactivated if the status is "Active". The steps to deactivate an existing Standing Prepayment are:

- 1. Select the Prudential-Settlements portal > Forms > Prepayments tab.
- 2. Click the Deactivate button (see Figure 38).
- 3. The inactive Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status "Inactive" (see Figure 39).

4.5.3.3 Activate an existing Standing Agreement

A Standing Prepayment can only be activated if the status is "Inactive". The steps to activate an existing Standing Prepayment are:

- 1. Select the Prudential-Settlements portal > Forms > Prepayments tab.
- 2. Click the Activate button (see Figure 39).
- 3. The active Standing Prepayment agreement is available to view in the Standing Prepayments tab, with status "Active" (see Figure 38).

Figure 34 Standing Prepayment agreement tab



Figure 35 Activate button







Figure 37 Standing Prepayment Agreement page 2



Figure 38 Active Standing Prepayment agreement

PREPAYMENTS	STANDING PREPAYMENT	NOTICE OF DISAGR	EEMENTS			
ACTIVATE 🗐	VIEW TERMS					٩
Id	Date Submitted 🗸	Submitted By	Status	Up dated By	Actions	
9	16/09/2021 11:00	<u>*</u> 7	Active		DEACTIVATE	

Figure 39 Inactive Standing Prepayment agreement

PREPAYMENTS	STANDING PREPAYMENT	NOTICE OF DISAGR	EEMENTS			
ACTIVATE 🕞	VIEW TERMS					٩
Id	Date Submitted 🗸	Submitted By	Status	Updated By	Actions	
9	16/09/2021 11:00	<u>*</u> ?	Inactive		ACTIVATE	

4.5.4 Standing Prepayment Terms and Conditions

The terms and conditions for a Standing Prepayment agreement as displayed in WEMS MPI are reproduced below for convenience only and may differ from the current terms and conditions in WEMS MPI. AEMO reserves the right to update the terms and conditions in WEMS MPI at any time and the Market Participant or Network Operator should always review the applicable terms and conditions when activating a prepayment:

Standing Prepayment Direction:

The Market Participant or Network Operator (the Relevant Participant) submits this standing prepayment direction for the purposes of the Wholesale Electricity Market Rules (WEM Rules) and the WEM Procedure: Prudential Requirements.

This standing prepayment direction applies when (and only when):

- AEMO issues adjusted Settlement Statements to the Relevant Participant in accordance with the WEM Rules;
- AEMO issues an Invoice for each adjusted Settlement Statement in accordance with the WEM Rules; and
- the net amount payable under the Invoices (Net Adjustment Amount) is an amount payable by AEMO to the Relevant Participant.

Unless otherwise directed by the Relevant Participant in writing, the Relevant Participant directs AEMO to apply the Net Adjustment Amount in the following manner on the Settlement Date for the Invoice:

- The Net Adjustment Amount is deemed to be a "Prepayment Amount" for the purposes of the prepayment direction form.
- AEMO must apply the Net Adjustment Amount (as a deemed "Prepayment Amount") towards amounts payable by the Relevant Participant to AEMO in the manner specified in the prepayment direction form.

This standing prepayment direction applies from the date this form is submitted in WEMS and remains in effect until either party notifies the other party in writing that it no longer applies.

Application of Prepayment Amount:

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Words having a defined meaning in the WEM Rules have the same meaning when used in this prepayment direction.

The Relevant Participant has paid or will pay the Prepayment Amount in a cash sum in Australian dollars into the account nominated by AEMO (as specified on the AEMO Website for this purpose from time to time) on the Date of Prepayment.

The Relevant Participant confirms that the payment of the Prepayment Amount is for the purposes of:

- reducing the Relevant Participant's Outstanding Amount, and thereby increasing its Trading Margin, on each day from the first Trading Day on which the Outstanding Amount is calculated after AEMO receives the Prepayment Amount until the Trading Day on which the Prepayment Amount is fully applied towards amounts payable by the Relevant Participant to AEMO; and
- being applied to amounts payable by the Relevant Participant to AEMO as specified in the Invoice for the next Settlement Statement.

The Relevant Participant irrevocably directs AEMO to apply the Prepayment Amount towards amounts payable by the Relevant Participant to AEMO, as specified in the Invoice for the next Settlement Statement; and, to the extent there is a residual amount, as specified in subsequent Invoices for Settlement Statements.

The Relevant Participant acknowledges and agrees that any interest that accrues on the Prepayment Amount will not be for the benefit of the Relevant Participant.

The Relevant Participant confirms and certifies that this prepayment direction is provided by an authorised representative of the Relevant Participant.

Prepayment Amount:

Amount payable specified in the Invoice for the adjusted Settlement Statement.

Date of Prepayment:

Settlement Date for the Invoice for the adjusted Settlement Statement.

4.5.5 Notice of Disagreement Form

The Notice of Disagreement form has been integrated into the Forms tab of the Prudential-Settlements portal (see Figure 40).

A Notice of Disagreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

This feature allows Participants to:

- Submit a new Notice of Disagreement in accordance with the WEM Procedure: Settlement.
- Track the progress of a submission through the dashboard (see Figure 40).
- Respond to AEMO when it requests more information in accordance with the WEM Rules .
- View the revised due date when AEMO extends the deadline to respond to a Notice of Disagreement in accordance with the WEM Rules.
- Download the decision document when AEMO completes its assessment and provides a response in accordance with the WEM Rules.

• Receive automated email notifications in relation to a submission.

SE	SETTLEMENTS			ITIALS	CREDIT SUPPORT	CREDIT SUPPORT		FORMS				
PREPAYMEN	PREPAYMENTS STANDING PREPAYMENT NOTICE OF DISAGREEMENTS											
SUBMIT	R								٩			
Id	Submitted \downarrow	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions				
	No data available											

Figure 40 Notices of Disagreement tab

4.5.5.1 Submitting a new Notice of Disagreement

A Notice of Disagreement may be submitted by any Participant User with settlements permissions enabled in WEMS MPI.

The steps to submit a Notice of Disagreement are:

- 1. Select Prudential-Settlements portal > Forms > Notices of Disagreement.
- 2. Click the Submit button (see Figure 41).
- 3. The participant Short Name and Authorised Representative are automatically pre-filled based on the details of the logged-in user.
- 4. Enter the following information in the dialog box:
 - 4.1. Market: Select Non-STEM, STEM or WEM.
 - **4.2. Invoice Period:** Select the Trading Month or Trading Week. Only one period can be selected. If the disagreement relates to multiple periods, then submit a new disagreement for each.
 - 4.3. Click Next to continue or Cancel to exit without saving.
 - **4.4. Reason for Disagreement:** Enter a brief description. Please provide sufficient detail outlining the submission. The information to be provided is outlined in the WEM Rules.
 - **4.5. Expected Settlement Amount:** Enter a dollar value if known. Provide any justification for the value in the supporting documents fields.
 - 4.6. Spreadsheet: Attach supporting evidence. Only one attachment may be provided.
 - **4.7. Additional Information (optional):** Attach any additional information that may support the disagreement. Multiple attachments may be provided.
- 5. Click Submit to provide the Notice of Disagreement to AEMO, or Cancel to exit without saving.
- 6. Once a Notice of Disagreement has been submitted, an automated acknowledgement will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements (see Figure 44).
- 7. The submitted Notice of Disagreement is available to view in the Notice of Disagreements tab, with status "AEMO Assessment" (see Figure 45).

4.5.5.2 AEMO Request for Information

AEMO may, if it reasonably considers it is required to assess or resolve a Notice of Disagreement, request clarification or further information regarding any aspect of the Notice of Disagreement in accordance with the WEM Rules.

If AEMO requests clarification or further information:

AEMO will change the Notice of Disagreement status to "Information Requested" (see 0).

AEMO may attach information to the "AEMO Documents" field and/or include a brief message.

An automated notification will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements .

To provide more information to AEMO (see Figure 47):

- 1. Select Prudential-Settlements portal > Forms > Notices of Disagreement.
- 2. Locate the relevant submission.
- 3. Review any attached information in the "AEMO Documents" field.
- 4. Click the Resubmit button (see Figure 47).
- 5. Review any message provided by AEMO in the "Request for Further Information" field.
- 6. Attach the required documents in the "Additional information" field.
- 7. Click Resubmit to provide the information to AEMO, or Cancel to exit without saving.
- 8. Once a Notice of Disagreement has been resubmitted, an automated acknowledgement will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements.
- 9. The resubmitted Notice of Disagreement is available to view in the Notice of Disagreements tab, with status "AEMO Assessment" (see Figure 45).

4.5.5.3 AEMO Extends the Deadline to Respond

AEMO may extend the deadline to respond to a Notice of Disagreement where it requires additional time to respond to the Notice of Disagreement, including additional time to assess relevant information or determine the actions it will take in accordance with the WEM Rules.

If AEMO extends the deadline to respond to a Notice of Disagreement:

- AEMO will change the "Due Date" field to the revised date.
- AEMO may request more information (see AEMO Request for Information).
- An automated notification will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements (see Figure 48).

4.5.5.4 AEMO Responds to Notice of Disagreement

AEMO must, as soon as practicable, but within 20 Business Days of receipt of a Notice of Disagreement respond to a Rule Participant who issued a Notice of Disagreement indicating the actions (if any) AEMO will take in response to the Notice of Disagreement in accordance with the WEM Rules.

When AEMO responds to a Notice of Disagreement:

- AEMO will attach a decision document to the "AEMO Documents" field.
- An automated notification will be emailed to the Main Contact user, the Participant User making the submission, and copied to WA Prudentials and Settlements.

To view AEMO's response to a Notice of Disagreement:

- 1. Select Prudential-Settlements portal > Forms > Notices of Disagreement.
- 2. Locate the relevant submission.
- 3. Click on the green icon in the "AEMO Documents" field.
- 4. Any further correspondence will occur outside of the Prudential-Settlements portal.

Figure 41 Submitting a new Notice of Disagreement

S	SETTLEMENTS		PRUDE	PRUDENTIALS		CREDIT SUPPORT	CREDIT SUPPORT		FORMS			
PREPAYM	ENTS STAND	ING PREPAYMENT	NOTICE	OF DISAGREE	MENTS							
SUBMI	SUBMIT E											
Id	Submitted \checkmark	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions				
	No data available											

Figure 42 Notice of Disagreement Form page 1

Notice of Disagreement Form
General Information: A Rule Participant may issue a Notice of Disagreement in respect of a Settlement Statement by the relevant Settlement Disagreement Deadline. A Rule Participant may lodge a Notice of Disagreement with AEMO pertaining to any amount related to the relevant Settlement Satement. A Notice of Disagreement must be submitted to AEMO in accordance with the WEM Procedure: Settlements. If you wish to submit a Notice of Disagreement to AEMO, then please provide the following details.
Participant Information:
Short Name: (Prefilled)
Authorised Representative: (Prefilled)
Market -
Invoice Period 👻
CANCEL NEXT

Figure 43 Notice of Disagreement Form page 2

Notio	ce of Disagreement Form		
Ø	Reason for disagreement		
			0
	Expected Settlement Amount		
Ŷ	<u> </u>		
Û	Spreadsheet		
U	Additional information (optional)		
		CANCEL	SUBMIT

Figure 44 Notice of Disagreement acknowledgement email

AEMO
WEM PRUDENTIAL AND SETTLEMENT SERVICE NOTIFICATION OF AEMO ASSESSMENT EVENT
Dear User
Notice of Disagreement for WEM TW 22 OCT 2023 is now in state AEMO ASSESSMENT.
This event was enacted by User of ABC on Mon, 7 Nov 2022 19:25.
Notice of Disagreement due date is Sun, 1 Oct 2023.
For further information please log into the WEM PaSS or contact AEMO at wasettlements@aemo.com.au
This is an automated mail notification from the AEMO WEM PaSS.

SUBM	п д								٩
ld ↑	Submitted	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions	
1	08/09/2021 20:05	NSTEM	Nov 2020	\$0.00	AEMO Assessment		07/10/2021		^
Rea	son for disagreement	:	<i>lt</i> .	Supporting Evidence x Submitted By User	Documents dex 🛨				
•				ŀ					•

Figure 45 Notice of Disagreement dashboard

Figure 46 Resubmitting a Notice of Disagreement

SUBM	п 🛱								0
Id	Submitted ψ	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions	
1	08/09/2021 20:05	NSTEM	Nov 2020	\$0.00	Information Requested	Q	08/10/2021	RESUBMIT	
1									,

Figure 47 Request for Further Information dialog box

0	Request for Further Information: Hi, can you please provide AEMO with assessing this Notice of Disagreeme	the following information to aid in nt -A-B	6
0	Additional information SCADA xlax		×

Figure 48 Notice of Disagreement due date email

AEMO
WEM PRUDENTIAL AND SETTLEMENT SERVICE NOTIFICATION OF AEMO ASSESSMENT EVENT
Dear User
Notice of Disagreement for WEM TW 22 OCT 2023 is now in state AEMO ASSESSMENT.
This event was enacted by User of ABC on Mon, 7 Nov 2022 19:25.
Notice of Disagreemen due date is Sun, 1 Oct 2023.
For further information please log into the WEM PaSS or contact AEMO at wasettlements@aemo.com.au
This is an automated mail notification from the AEMO WEM PaSS.

Figure 49 AEMO response to a Notice of Disagreement

SUBM	IT 🛱								٩
Id	Submitted 🗸	Market	Period	Amount	Status	AEMO Documents	Due Date	Actions	
1	08/09/2021 20:05	NSTEM	Nov 2020	\$0.00	Completed	R	11/10/2021		\checkmark
				<	1 >				

4.6 Prudential and Settlements API

AEMO uses the third party Swagger platform to document the Prudential and Settlements APIs and share the information with Participants.

To utilise the APIs, a web certificate must be obtained from AEMO. Please contact <u>wa.operations@aemo.com.au</u> if you require a certificate. Web certificates are issued by Digicert and are replaced annually. Participants using web services should ensure their systems trust certificates issued by this authority.

Table 3 Documentation for Prudential and Settlement APIs

API Information	URL
Swagger documentation	Production: <u>https://wems.aemo.com.au/prudential/api/docs/</u> Market Trial: <u>https://wems-</u> mkt.aemo.com.au/prudential/api/docs/
End points (hostname)	Production: wems.aemo.com.au Market Trial: wems-mkt.aemo.com.au

4.7 Download Files

To access the Download Files display, select Settlements > Download Files (see Figure 50). The Download Files display allows users to download the following:

PCS documents for RCM Settlements and WEMS Settlements for Invoices issued prior to 1 August 2021. PCS document for the IRCR calculation.

WEM Metering, Settlement and Prudential Calculation Formulation.

Figure 50 Download Files menu

Home	Notifications	Energy Market	Reserve Capacity	Balancing	LFAS	Registration	Settlements	Reports	Configuration	Help	Logout
Home > Settlements > Download Files							Prudential-Settler	ments			
						Download Files]			
							Archived Portal				
							Archived Pruden	itial Reports			
	Download pcs	Files									

Glossary

Term	Definition			
AEMO	Australian Electricity Market Operator			
IRCR	Individual Reserve Capacity Requirement			
LFAS	Load Following Ancillary Services			
MPA	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			
WEM	Wholesale Electricity Market			
WEM PaSS	Wholesale Electricity Market Prudential and Settlement Service			
WEM Rules	Wholesale Electricity Market Rules			
WEMS	Wholesale Electricity Market Systems			