Guide to MSATS Web Portal

Version 13.00

June 2021

Provides assistance using the Market Settlement and Transfer Solution (MSATS) web portal

Important Notice

PURPOSE

This Guide to MSATS Web Portal (Guide), prepared by the Australian Energy Market Operator (AEMO), provides guidance for MSATS under the National Electricity Rules (Rules).

NO RELIANCE OR WARRANTY

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Available to the public.

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DOCUMENTS MADE OBSOLETE

The release of this document changes any previous versions of Guide to MSATS Web Portal.

FEEDBACK

Your feedback is important and helps us improve our services and products. To suggest improvements, please contact AEMO's support hub.

Contents

Introduction

Purpose

Assists market participants to use the MSATS web portal functions..Assists market participants to use the MSATS web portal functions.

Audience

This guide is relevant to Registered Participants requiring an understanding of MSATS functionality..

How to use this guide

- Read this guide along with the Technical Guide to MSATS.
- This guide is written in plain language for easy reading.
- Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.

- Where there is a discrepancy between the relevant Procedures and information or a term in this document, the Procedures take precedence.
- The references listed throughout this document are primary resources and take precedence over this document.
- **Text in this format** indicates a resource on AEMO's website.
- Text in this format indicates a direct link to a section in this guide.
- **Text in this format** is an action to complete in the Markets Portal interface.
- Glossary and Rules terms are capitalised and have the meanings listed against them in the Rules, Rules terms on page 237, and **Industry Terminology**.
- The numbers on the example screenshots throughout this guide refer to the numbered explanations in the topic.
- Diagrams and screenshots are provided as an overview. In case of ambiguity between a diagram and the text, the text prevails.
- References to time are Australian Eastern Standard time (AEST) unless otherwise specified.
- References to currency are to Australian dollars.
- References to time in:
    - The Retail Electricity Market Procedures (except the B2B Procedures) are to Australian Eastern Standard Time (AEST).
    - The B2B Procedures refer to the local time applicable at the Site where a B2B Transaction relates.
- The expressions **within one Business Day or next Business Day** in the B2B Procedure: Service Order Process mean by 11:59 pm the next Business Day.

What's in this guide

Need to Know on page 4 explains related rules, procedures, assumed knowledge, prerequisites, Participant User rights access, and about Set Participant.

Ombudsman on page 7 assists with using the Ombudsman menu to view reports about NMI enquiries made by the Ombudsman.

Participants on page 15 assists with viewing and maintaining participant information such as participant contacts, participant XML schema, and FTP system status.

Transactions on page 36 assists with change requests, objections, notifications, requests for data, and the management of Standing Data.

NMI Information on page 97 explains how to use the NMI Information menu to identify a specific connection point for Settlement, auditing, and discovery purposes.

Profile Preparation on page 131 assists authorised Participant Users to perform Metering Data Management (MDM) functions such as: defining profile methods and areas, defining data sources, and creating profiles.

Data Load Import on page 143 assists with messages between the MSATS system and participant systems.

Metering Data on page 165 explains the Metering Data component of MSATS used for the receipt, storage and aggregation of Metering Data.

Settlement Data on page 192 assists authorised Participant Users to view Settlement data including viewing Settlement scenarios, preparing and committing Settlement data cases.

Reports and Alerts on page 197 explains the use of CATS (Consumer Administration and Transfer Solution) and MDM (Metering Data Management) reports.

Needing Help? on page 232 provides assistance clearing your web portal cache, supported web browsers, and guidance for requesting assistance from AEMO.

Terms on page 237 has Rules terms and references to glossary terms used throughout this guide.

References on page 238 has a list of resources mentioned in this guide. You can find most of them on AEMO's website.

Need to Know

Related rules and procedures

Australian Energy Regulator (AER), www.aer.gov.au.

Current National Electricity Rules: https://www.aemc.gov.au/regulation/energy-rules/national-electricity-rules/current.

Retail and Metering procedures: https://aemo.com.au/energy-systems/electricity/national-electricity-market-nem/market-operations/retail-and-metering.

Retail Electricity Market Procedures - Glossary and Framework: https://aemo.com.au/-/media/files/electricity/nem/retail_and_metering/metering-procedures/2017/retail-electricity-market-procedures--glossary-and-framework-final.pdf?la=en

Assumed knowledge

This guide assumes you have knowledge of the:

- Retail Electricity Market Procedures - Glossary and Framework
- aseXML Standards

- MSATS Procedures
- Technical Guide to MSATS

Prerequisites

To use MSATS you must be a Registered Participant.

User rights access

To access MSATS, Participant Users must have the appropriate user rights access. The access right determines the functionalities and transactions you can use to access the web portal, batch interfaces, FTP, and API services.

The entity to access each MSATS menu item is described in each chapter.

Participant Administrators (PAs) authorise Participant User access in MSATS. The initial PA is set up by the AEMO system administrator as part of the registration process.

For more details about participant administration and user rights access, see Guide to User Rights Management.

The initial PA is set up by the AEMO system administrator as part of the registration process. If you don't know who your company's PA is, contact AEMO's support hub.

Setting a participant

Where a Participant User has user rights assigned by more than one Participant ID, they select the Participant ID they want to represent using the Set Participant option, without having to log out, change IDs and log in again.

For help, see Setting a participant on page 234.

The participant you are acting for displays in the Markets Portal interface. For permission to use other participant IDs with Set Participant, see your company's PA.

When you are using the Set Participant function, you can only log into the Markets Portal once on the same computer.

Ombudsman

About ombudsman

Using the Ombudsman menu, Participant Users can download reports on NMI enquiries made by ombudsman companys.

Ombudsman reports user rights access

Participant Administrators control access to Ombudsman reports using the Ombudsman Enquiry entity in the Administration menu in the MSATS Web Portal.

Ombudsman reports

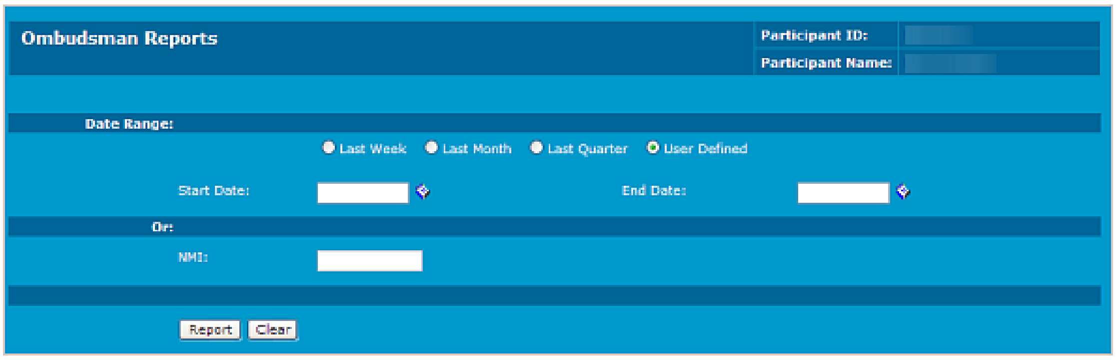
The reports menu provides a report of ombudsman enquiries made on your company. You can request a report by NMI or by date range.

Requesting a date range report

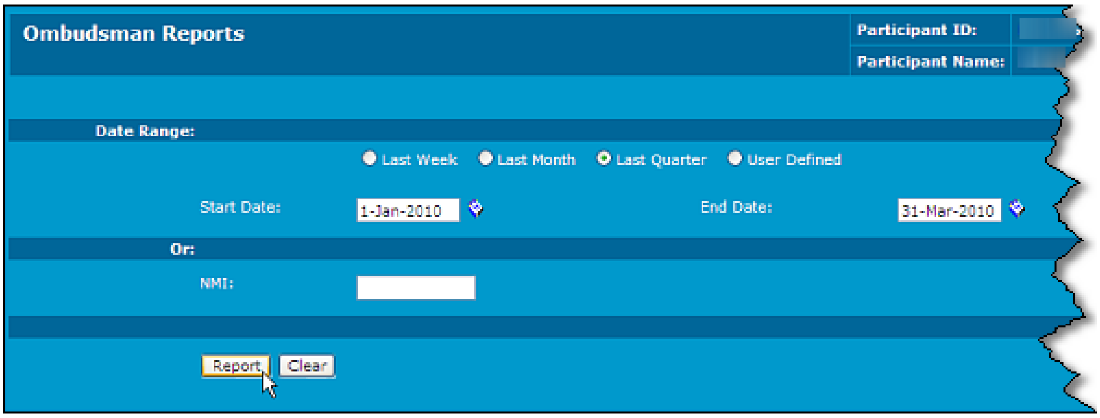
To request a date range report:

1. On the main menu, click Ombudsman and then click Reports.

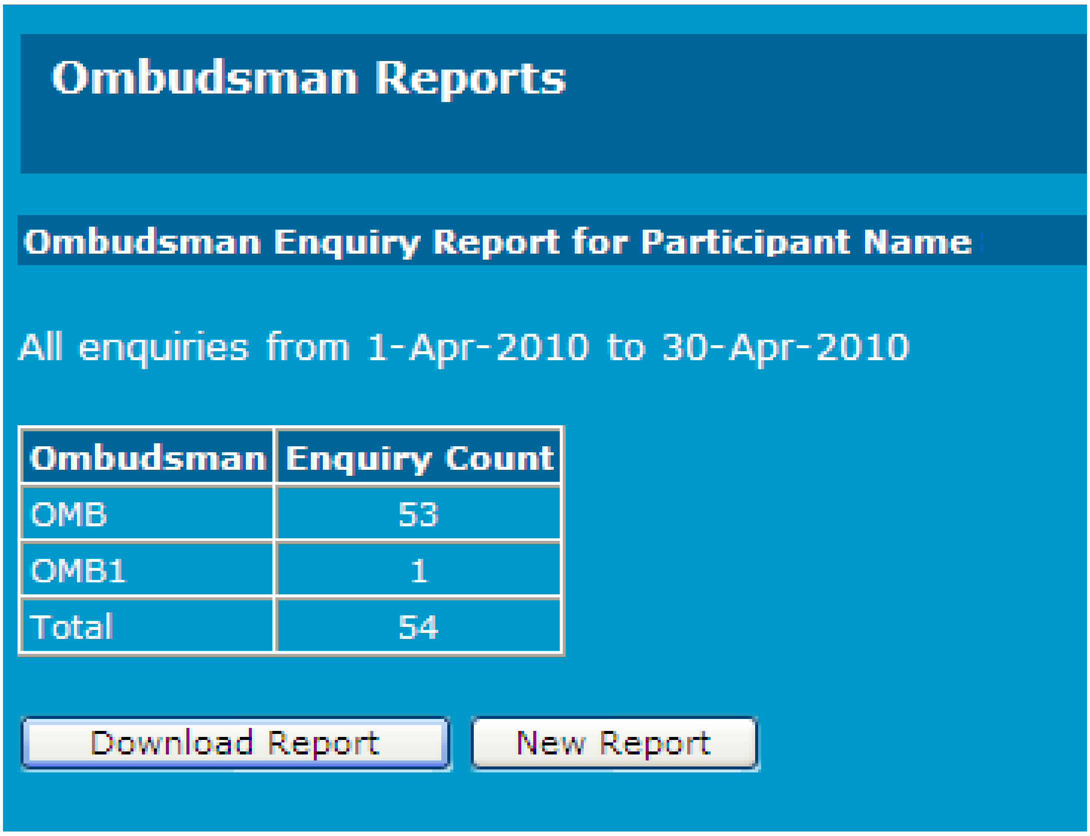
2. The Ombudsman Reports interface displays. Select a Date Range to report on by choosing one of the following radio buttons:
   - Last Week: enters a Date Range for the last calendar week (Monday to Sunday).
   - Last Month: enters a Date Range for the last calendar month.
   - Last Quarter: enters a Date Range for the last quarter.
   - User Defined: enter your own Start Date and End Date by clicking the calendar icons and selecting dates from the MSATS calendar (this is the default selection).



3. Click Report.



4. The Ombudsman Enquiry Report for the requested date range displays:
   - Ombudsman company making the enquiry.
   - Enquiry Count: how many enquiries were made for the selected date range in descending order.

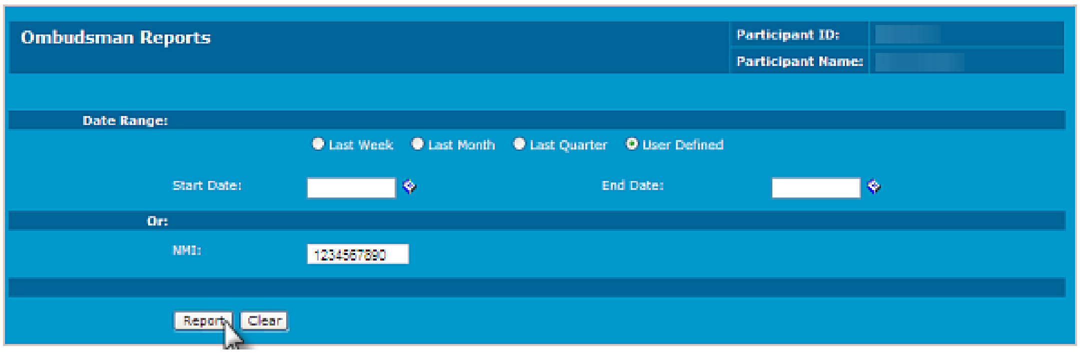


You can also:

- Download the report.
- Click Download Report. To learn more, Downloading an Ombudsman report on page 12.
- Request a new report.
- Click New Report to return to the Ombudsman Reports search interface.

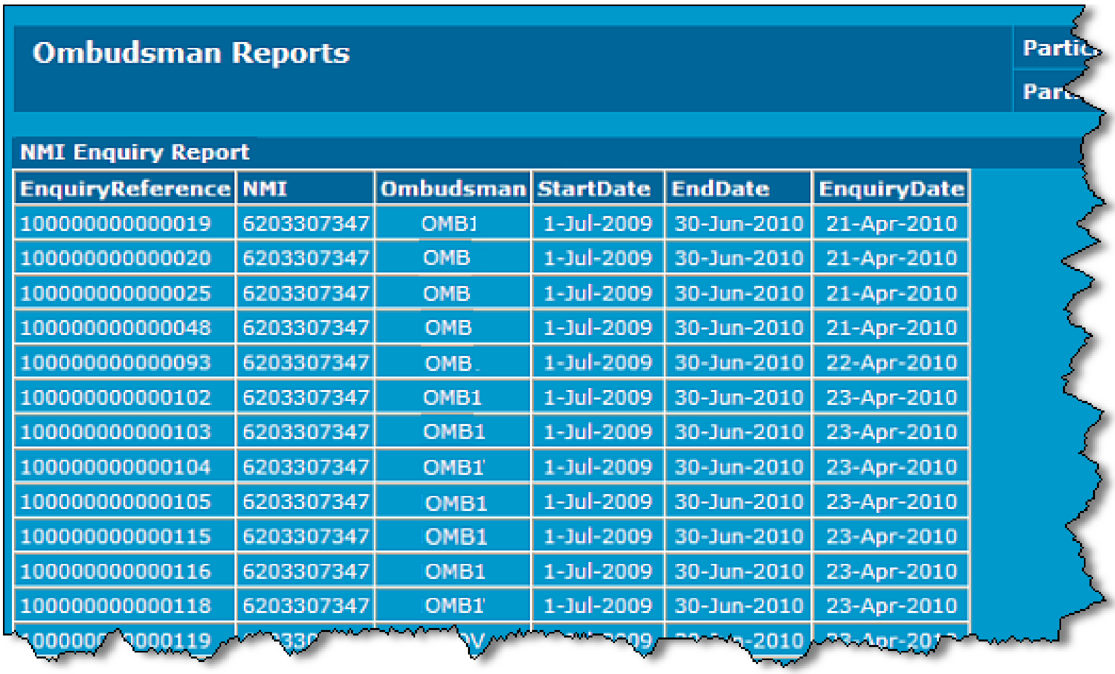
Requesting a NMI report

1. On the main menu, click Ombudsman and then click Reports.
2. The Ombudsman Reports interface displays, type the NMI number and click Report.



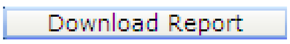
3. The Ombudsman Enquiry Report for the requested NMI displays:
    - Enquiry Reference numbers for which your companys has received a notification.
    - NMI number
    - Ombudsman company making the enquiry.
    - Start and End Dates: the requested search dates of the NMI enquiry.
    - Enquiry Date: the date the ombudsman company made the NMI

enquiry.



EnquiryReference	NMI	Ombudsman	StartDate	EndDate	EnquiryDate
100000000000019	6203307347	OMB1	1-Jul-2009	30-Jun-2010	21-Apr-2010
100000000000020	6203307347	OMB	1-Jul-2009	30-Jun-2010	21-Apr-2010
100000000000025	6203307347	OMB	1-Jul-2009	30-Jun-2010	21-Apr-2010
100000000000048	6203307347	OMB	1-Jul-2009	30-Jun-2010	21-Apr-2010
100000000000093	6203307347	OMB	1-Jul-2009	30-Jun-2010	22-Apr-2010
100000000000102	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000103	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000104	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000105	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000115	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000116	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
100000000000118	6203307347	OMB1	1-Jul-2009	30-Jun-2010	23-Apr-2010
[illegible]000119	[illegible]	[illegible]	[illegible]	[illegible]-2010	[illegible]

You can also:

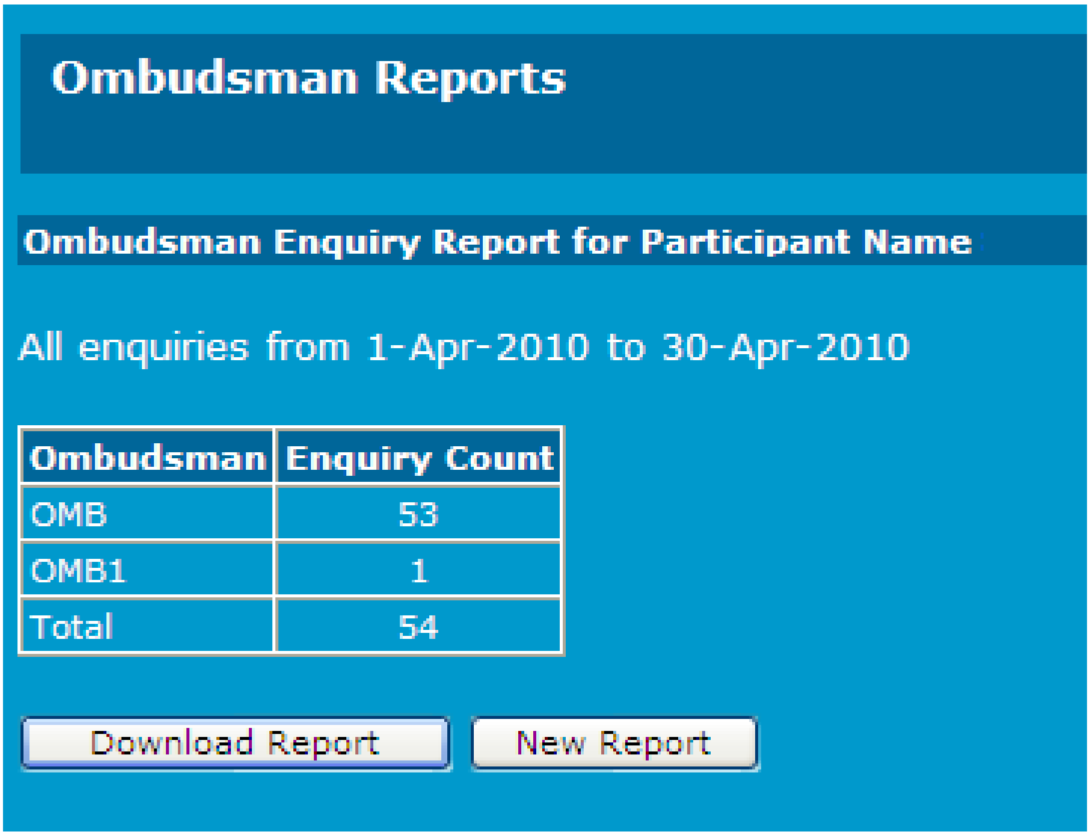
- Download the report.
- Click Download Report. To learn more, Downloading an Ombudsman report on the next page.
- 

- Request a new report.
- Click New Report to return to the Ombudsman Reports search interface.
- 

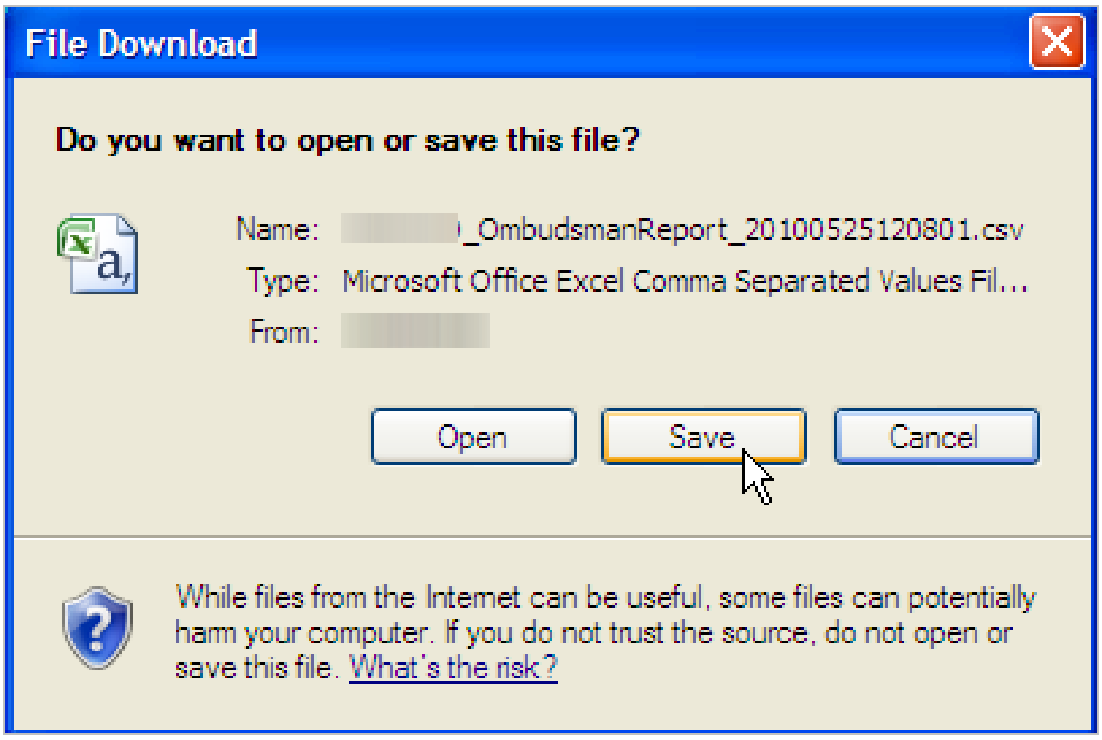
Downloading an Ombudsman report

This section assumes that you have followed the steps for requesting a NMI or date range report. See Requesting a NMI report on page 10 and Requesting a date range report on page 8.

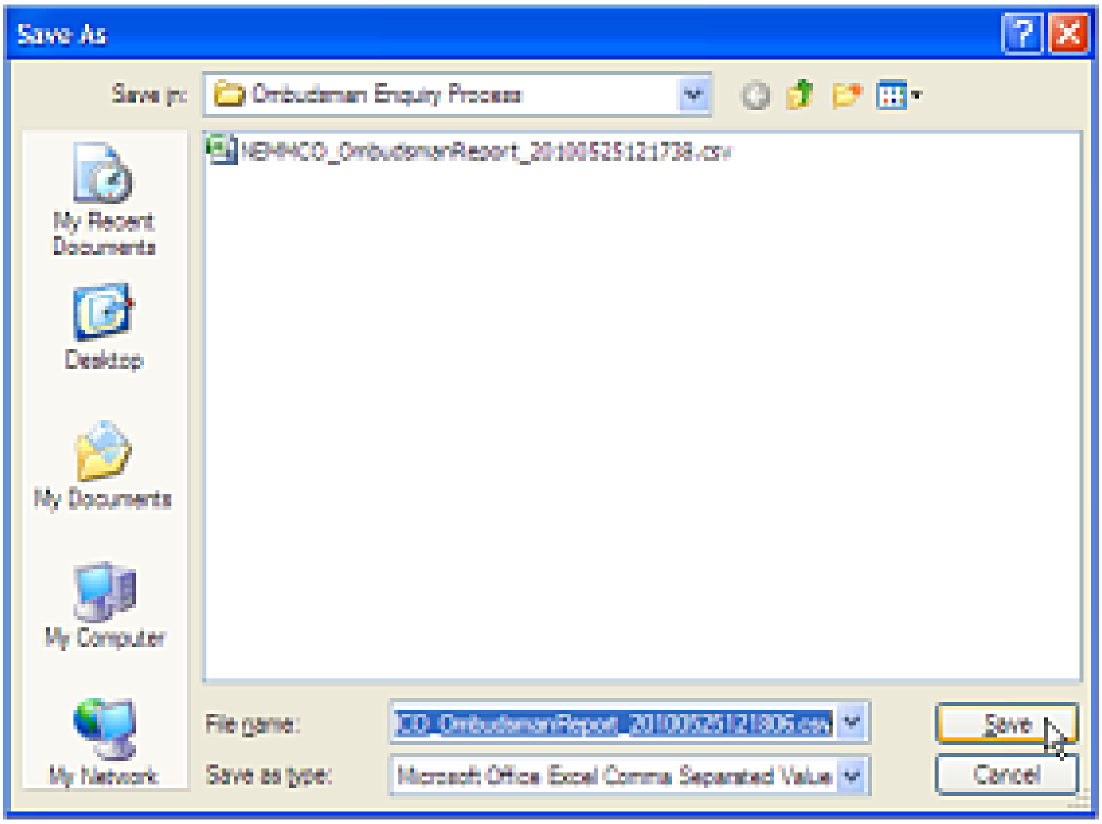
1. On the Ombudsman Reports interface, click Download Report.



2. The File Download interface displays.



3. Do one of the following:
    - To open the file in a spreadsheet, such as MS Excel, click Open.
    - Click Save and, in the Save As window, choose a location on your local computer to save the file in .CSV format. Use a text editor application (for example, Notepad) or spreadsheet (MS Excel) to open the saved file. The standard file name format is ParticipantID_OmbudsmanReport_DateTime.csv.
    - Alternatively, click Cancel to return to the Ombudsman Report interface.



4. Opening the file displays the report with the same data displayed on the **Ombudsman Enquiry Report** interface.

   If your data does not download, a message displays **Data download was not successful**; retry your download again.

Figure 1 Ombudsman report example

	A	B	C	D	E	F	G
1	C	MSATS	OmbudsmanReport	NEMMCO	PARTID	25/05/2010	03:07:44
2	C	Ombudsman Enquiry Report for NEMMCO					
3	C	All enquiries from 2010/01/01 to 2010/03/31					
4	I	OMBD	EnquiryReport	2	Ombudsman	Enquiry Count	
5	D	OMBD	EnquiryReport	2	Total	4	
6	C	END OF REPORT	6				

Participants

About participants

The Participants menu is used to view and maintain participant information. Depending on your access rights, you may see other submenus in your Participant menu than the ones explained in this guide.

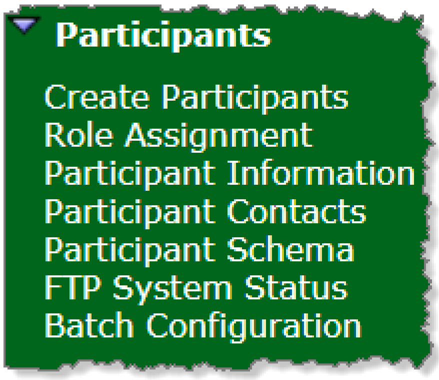
If you are an administrator, for information regarding other submenus, see Guide to User Rights Management.

Participant information

Participant Information user rights access

Participant Administrators control access to Participant Information using the Participant Information entity in the Administration menu in the MSATS Web Portal.

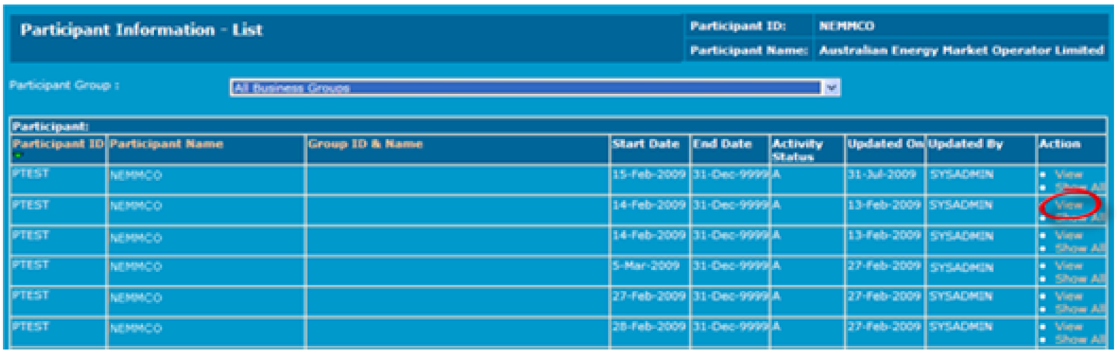
Viewing detailed information



1. On the main menu, click Participants and then click Participant Information.

2. The Participant Information - List interface displays. For help understanding the fields, seeParticipant information fields on the next page. To view further participant information, click View in the Action column next to the Participant ID.

   Click the Participant ID, Participant Name, or Group ID & Name column headings to sort the list by ascending or descending order.



3. The Participant Information - View interface displays the participant's detailed information. For help understanding the fields, see Table 1 on the next page.

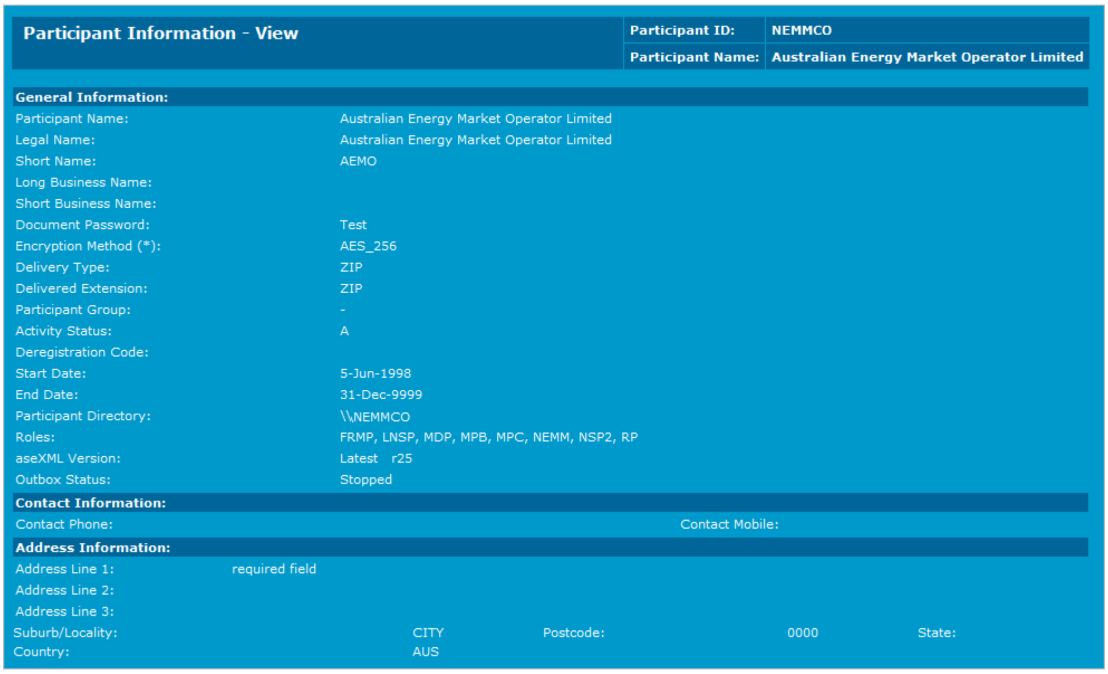


Table 1 Participant information fields

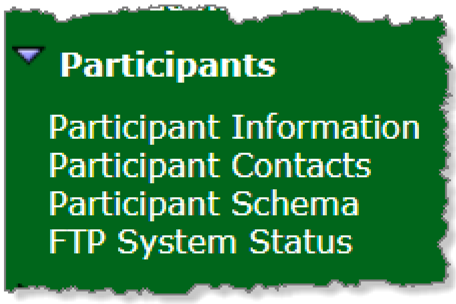
Column name	Description
Participant ID	Participant’s individual MSATS identification.
Participant Name	Name of the participant.
Legal Name	Participant’s legal name.
Short Name	For example : Participant Name = Australian Energy Market Operator Short Name = AEMO
Long Business Name	Long registered business name.
Short Business Name	Short registered business name.
Document Password	Password for opening encrypted documents sent by email.
Encryption Method	Encryption algorithm used for encrypting documents sent by email.

Column name	Description
Delivery Type	File format used to send documents.
Delivered Extension	The file extension of the documents sent by email.
Participant Group	The group the participant belongs to (if any).
Activity Status	Participant status - A = active or I = inactive.
Deregistration Code	The code allocated if the participant is deregistered (for example, DEREG).
Start Date	Date the participant ID was created or started.
End Date	Participant ID expiry date.
Participant Directory	The file path used to access the inbox and outbox when using the batch handlers.
Roles	Roles identify the types of responsibility a participant plays in relation to a NMI. The Role a participant can act in determines many of the functions performed in MSATS. Roles are an attribute of a participant not a Participant User. For further information on Role definitions, see the Glossary in the MSATS Introduction Guide.
aseXML Version	Current aseXML version the participant is using.
Outbox Status	Status of the outbox (such as,Running and Stopped).
Contact Phone	The phone number field consists of two sections. The first is a four-digit numerical country and area code. The second is a fifteen-digit numerical phone number.
Contact Mobile	The mobile field is optional and displays the mobile phone number of a participant.
Address 1	Participant’s address details.

Column name	Description
Address 2,3	The Address 2 and Address 3 fields display any extra address details that do not fit within the Address 1 field.
Suburb/Locality	Where the participant is located.
Postcode	Four-digit numerical postcode.
State	Participant’s state.
Country	Participant’s country.

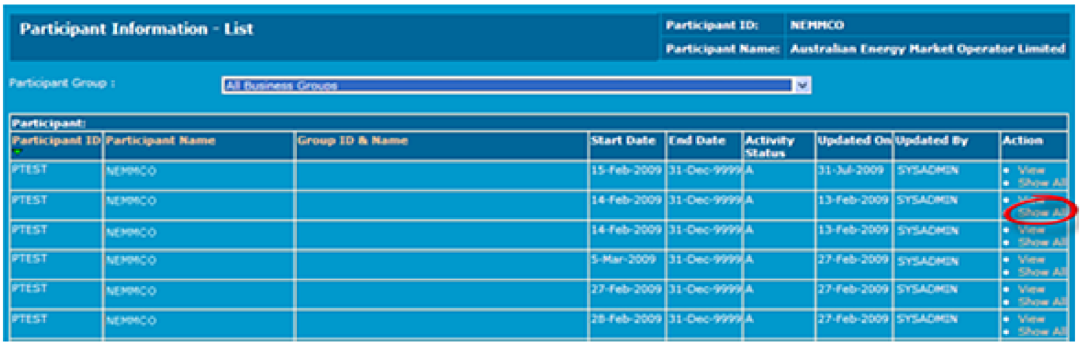
Viewing a summary

1. On the main menu, click Participants and then click Participant Information.



2. Click Show All in the Action column next to the Participant ID.

   Click the Participant ID column heading to sort the list by ascending or descending order.



3. The Participant Information - Show all interface displays the summary information.

   Click View in the Action column to see detailed participant information.

Participant Information - Show All	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Participant Information:

Participant Name	Group ID & Name	Start Date	End Date	Activity Status	Updated On	Updated By	Action
Pool Testing		11-Mar-2009	31-Dec-9999	A	14-Jul-2009	POOLTSTBATCH	• View

Participant contacts

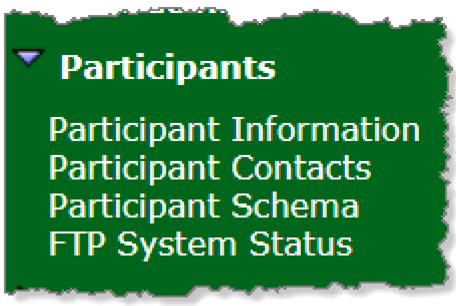
The Participant Contacts menu is where authorised Participant Users can create and maintain a list of external and internal business contacts. The functionality is similar to an address book where each participant has their own unique contact list that is viewable by authorised Participant Users.

The participant contact list is not linked to the normal MSATS participant records. It acts as a stand-alone set of address book records.

Participant Contacts user rights access

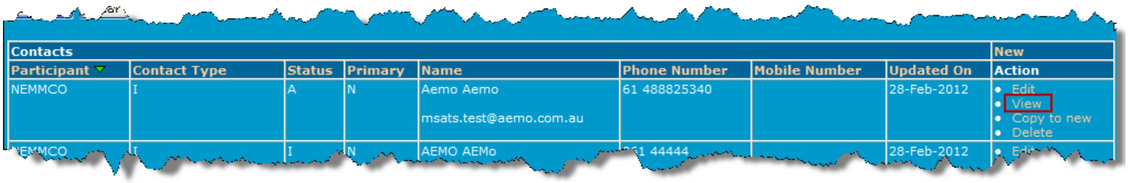
Participant Administrators control access to Participant Contacts using the Participant Contacts entity in the Administration menu in the MSATS Web Portal.

Viewing the participant contact list



1. On the main menu, click Participants and then click Participant Contacts.
2. The Participant Contact - Lists interface displays a subset of the information available for each contact.
3. In this interface, you can do the following:
   - Sort the list of contacts: click any column heading (except Action).
   - Create a new contact based on an existing contact: click Copy to new.

3. To see further contact details, click View in the Action column.



4. The Participant Contacts - View interface displays the contact information in read-only format. To modify contact details, Editing a contact on page 26.

For help understanding the fields, see Table 2 on the next page.

Table 2 Participant contacts fields explanation

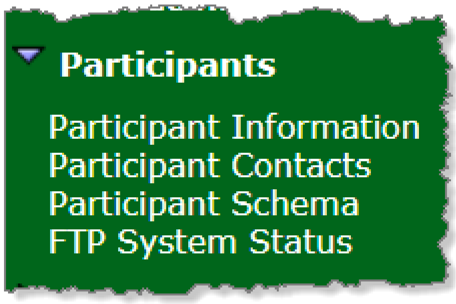
Field	Description
Participant ID	Your participant ID.
Title	Contact's title (such as MR, MRS, MS)
Contact Name	Contact's first name and surname.
Contact Type	E = external contact. I = internal contact.
Position	The contact's Role or official business title (such as CEO, Manager)
Division	The contact's division within their company.
Primary	Y = primary contact. N = secondary contact.
Comments	Notes or comments regarding the contact.
Address 1	Contact's address details.
Address 2, 3, 4	Extra address details that do not fit within the Address 1 field.
Suburb/Locality	Contact's suburb or city.
State	Contact's state.
Post Code	Contact's postcode.
Country	Contact's country.
Phone	Contact's phone number. The first is a four-digit numerical country & area code. The second is the numerical phone number.
Mobile	Contact's mobile phone number.
Fax	Contact's fax number.

Field	Description
Switchboard Phone	Contact's general switchboard number.
Pager	Contact's pager number.
E-mail	Contact's email address.

Creating a new contact

1. On the main menu, click Participants and then click Participant Contacts.

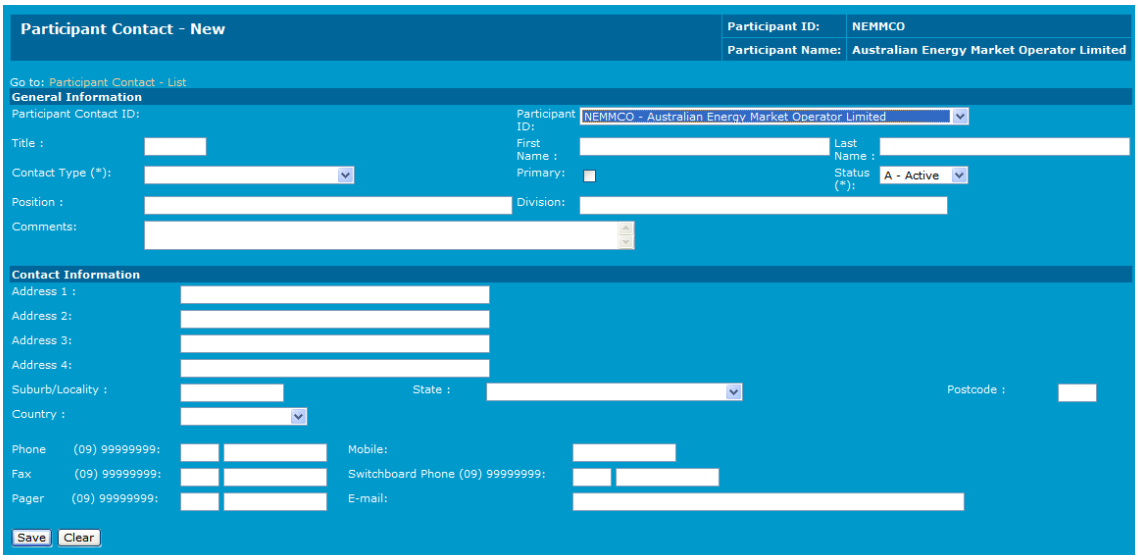
2. The Participant Contact - Lists interface displays, click New above the Action column.



If you cannot see the New link above the Action column, you do not have permission to create new contacts.

3. The Participant Contacts - New interface displays. The ParticipantID is populated automatically, in the General Information section. The asterisk (*) indicates a required field.

4. Type the contact's Title (such as Mr, Mrs, Miss, Ms, Dr.) This is a required field.



5. Type the contact's First Name and Last Name.

6. Click the Contact Type drop-down arrow and select from the list. For example, I is an internal contact, and E is an external contact. These are examples only, other options may display.

7. If the contact is a primary contact, click the Primary check box to enter a tick.

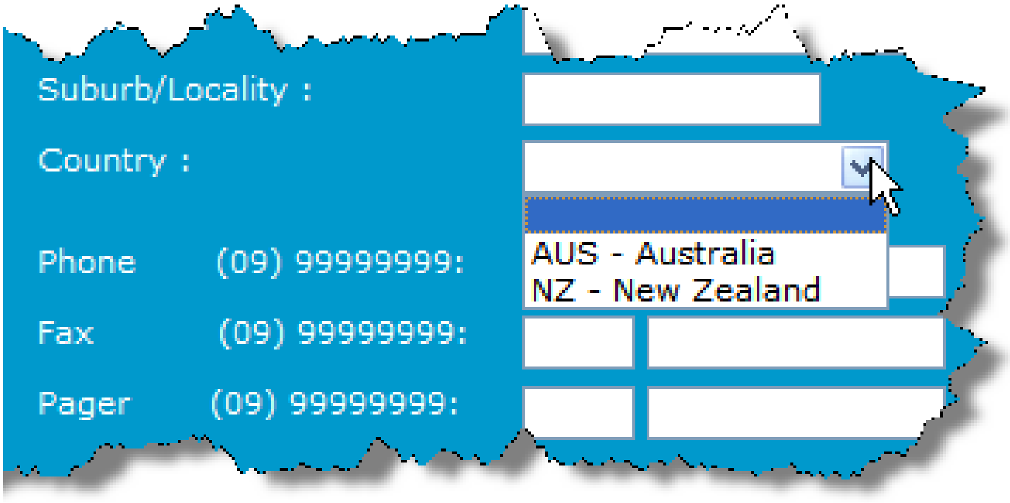
8. Type the Position and the Division of the contact. Position refers to the contact's business Role (for example General Manager).

9. Type any relevant comments in the Comments field.

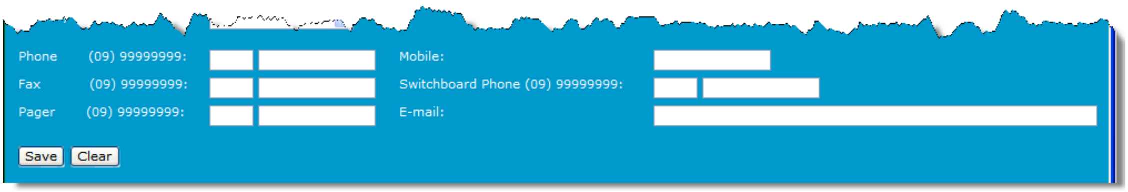
10. Type the address details in the Contact Information section. Address 1 is a required field; use the Address 2, Address 3, and Address 4 fields if the contact's address is larger than the Address 1 field.

11. Type the Suburb/Locality, State and Postcode information.

12. Click the Country drop-down arrow and select from the list.



13. Enter the contact's Phone number. The area and country code are required fields. (The example uses the country code 61 for Australia and the area code 3 for Victoria.) Only the phone number field is required.



14. Enter information for the Mobile, Fax, SwitchboardPhone, Pager and E-mail fields if required.

15. Click Save.

Click Clear to clear the contact information and start again.

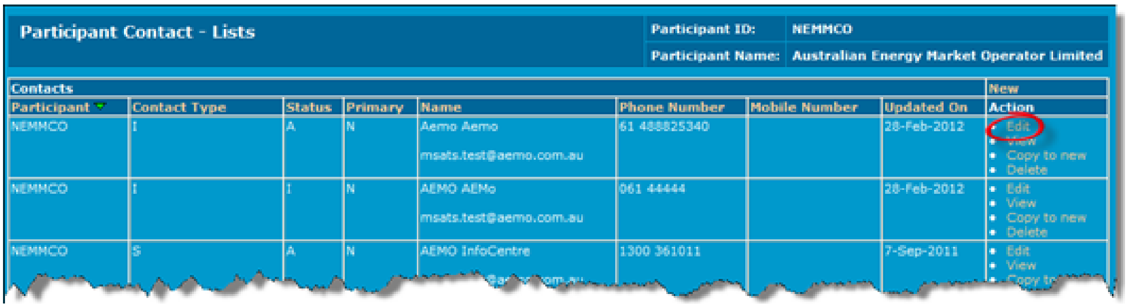
The information is validated and a confirmation message displays, "The Participant contact record has been saved successfully". The new contact displays in the Participant Contacts - Lists interface.

If any required fields are blank, or if information entered is not in the correct format, a message displays. Rectify the problem and click Save again.

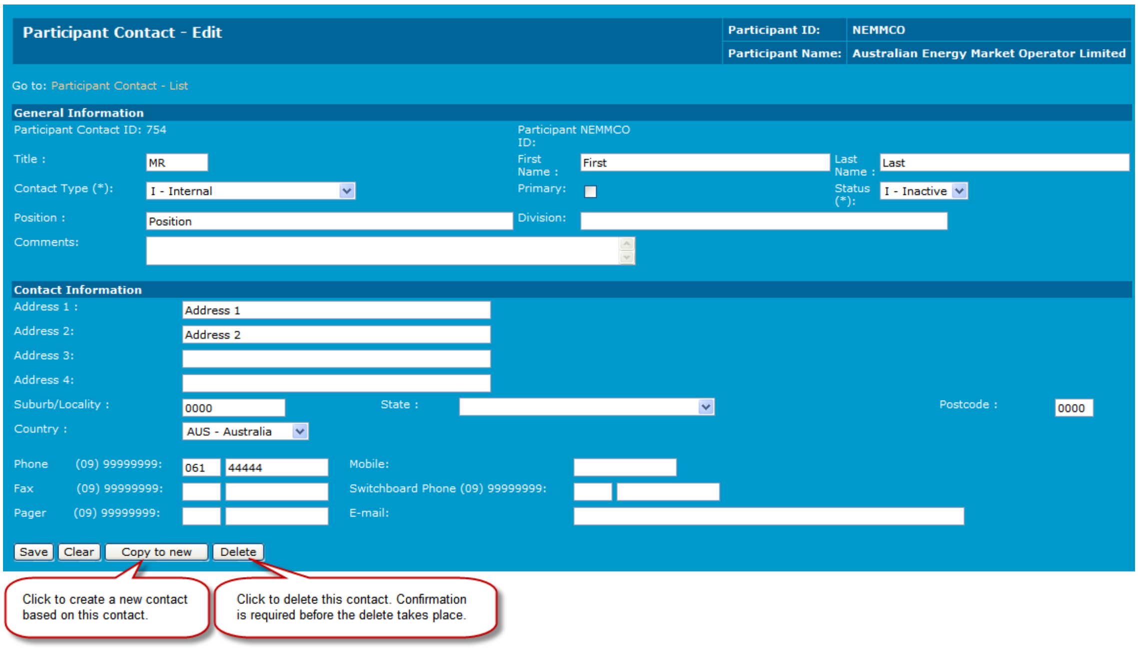
Editing a contact

1. On the main menu, click Participants and then click Participant Contacts.
2. The Participant Contact - Lists interface displays, click Edit in the Action column.

   If you cannot see the Edit link in the Action column, you do not have permission to edit contact details.



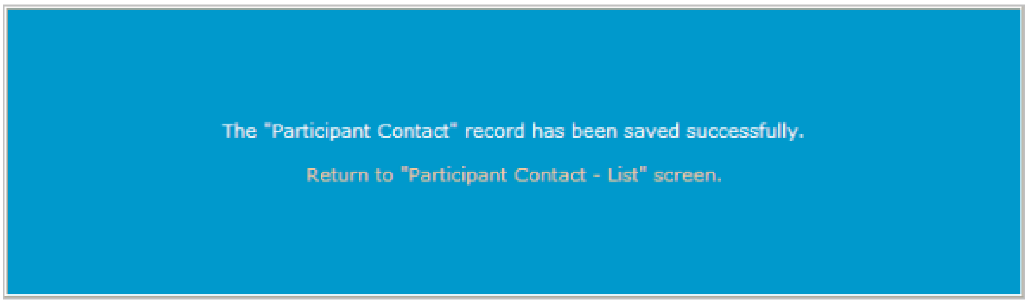
3. The Participant Contact - Edit interface displays. Note: On this interface, the Participant Contact ID and ParticipantID are read-only.



4. Make your changes and click Save. For help understanding the fields, Viewing the participant contact list on page 20.

   Alternatively, click Clear if you want to remove all changes and revert to the original information. Reverting is not possible if you have already saved the new changes.

5. A confirmation message confirms the saved changes. To return, click **Return to "Participant Contact - List" interface**.



Deleting a contact

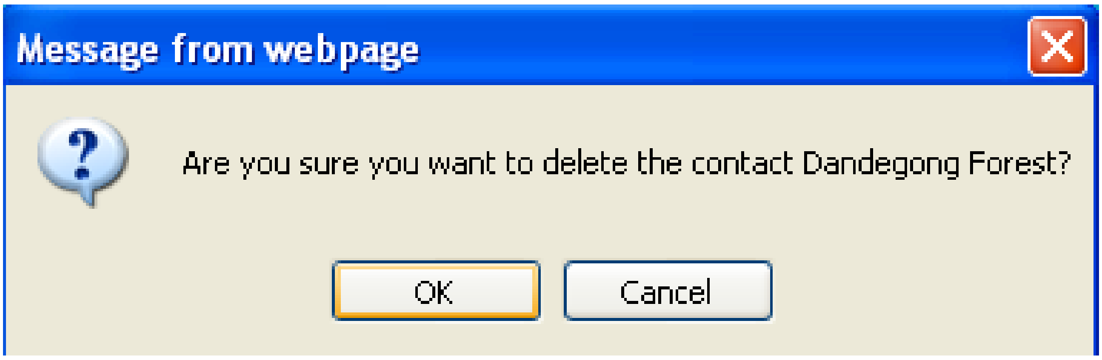
Authorised participants can delete contact records from the contact list. Once the record is removed, it can only be retrieved using a reload of archived data (if the record has been in the database long enough for archiving) or by re-creating the record.

1. On the main menu, click Participants and then click Participant Contacts.

2. The Participant Contact - Lists interface displays, search for your record and click Delete in the Action column next to the record.

   If you cannot see the Delete link in the Action column, you do not have permission to delete contacts.

3. Click OK to confirm contact deletion.



4. A confirmation message confirms the deletion and the contact record no longer appears in the Participant Information - List interface.

Participant schema

About participant schema

In the Participant Schema you can:

- View the current B2M aseXML schema version: Current, Superseded, or Latest. For help, see Changing the B2M aseXML schema on the next page
- Set different Participant Outbox protocols for different CATS, NMID, or MDMT Transaction Groups: FTP, API-Pull, API-Push.
- View the outbox status.
- Elect to stop receiving zip files.
- View the number of outstanding zip files.

For more information about aseXML transition, see Guide to Transition of aseXML.

File processing

Participant Administrators can change the status of the file-producing process:

- From Running to Stopped (to stop files being created).
- From Empty to Running (to restart files being created, using the chosen schema).
- From Stopped to Running (to restart files being created, without waiting to change the schema).

Changing the B2M aseXML schema

Provided the Outbox is empty of all B2M files (not B2B), participants can change their choice of schema to:

- Latest means the participant is set up to receive both current and next projected future version of aseXML-compliant files.
- Current means the participant can receive files compliant to the current aseXML version.
- Superseded means the participant can receive files compliant to the superseded aseXML version, and needs to change over their receiving system before the next aseXML version release.

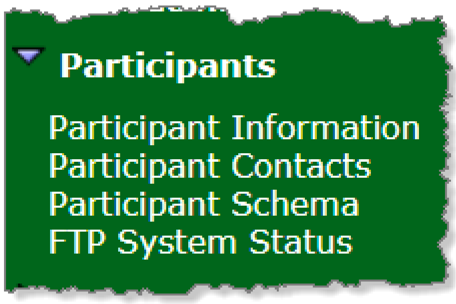
Participant Schema user rights access

Participant Administrators control access to the Participant Schema using the Participant aseXML Schema entity in the Administration menu in the MSATS Web Portal.

Viewing your participant schema

In the Participant Schema interface Participant Administrators and authorised Participant Users can:

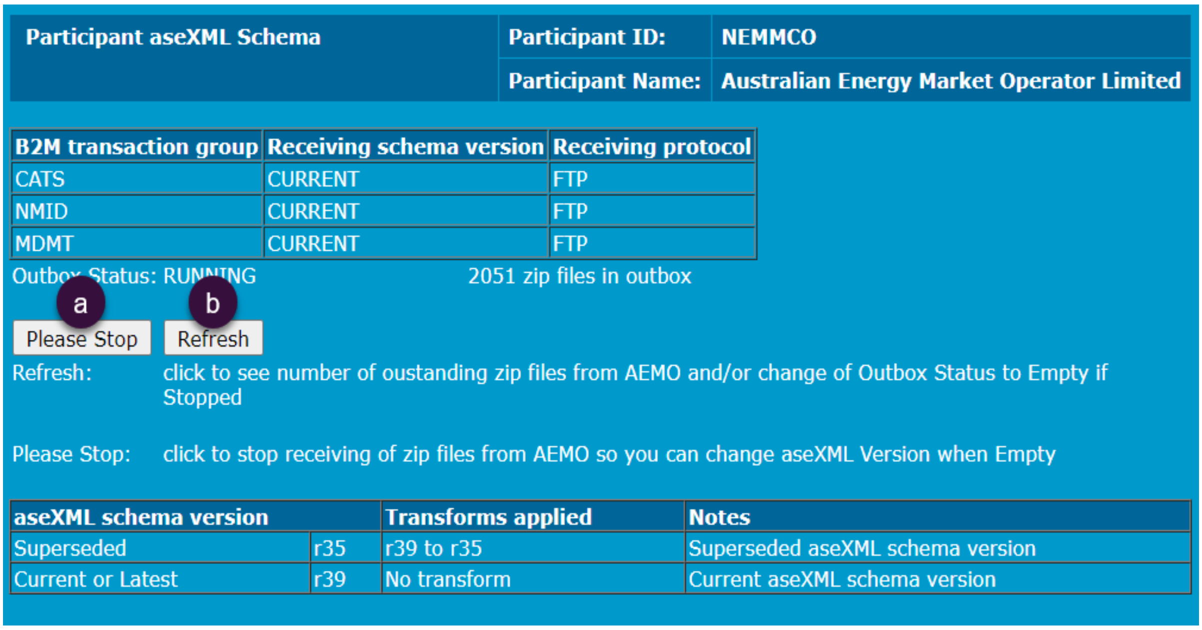
1. View or change their B2M aseXML schema version to Current, Superseded, or Latest for each B2M Transaction Group.
2. Set different Participant Outbox protocols for different CATS, NMID, or MDMT Transaction Groups: FTP, API-Pull, API-Push.
3. View outstanding Messages and ACKS.



To view the current aseXML schema version or outbox protocol for B2M Transaction Groups:

1. On the main menu, click Participants and then click Participant Schema.
2. The Participant aseXML Schema interface displays with your current aseXML Version, and your Outbox Protocol. From this interface you can do one of the following:
   a. Click Please Stop to stop receiving zip files from AEMO. For example, the Outbox Status must be empty to change the aseXML version or protocol.
   b. Click Refresh to see the number of outstanding zip files available from AEMO. For example, click Refresh after Please Stop to see if the outbox status is empty.

Figure 2 Participant aseXML schema



aseXML schema transition plan

This section describes the basic steps for transitioning to a new aseXML schema version. For more detailed scenarios, see Guide to Transition of aseXML.

To transition to a new schema version:

1. Stop MSATS creating files for your Participant ID, Change your participant schema version or outbox protocol on the next page.
2. Use your system as is, until the output directory is empty of MSATS files for processing.
3. Nominate your new aseXML version in the web portal, see Change your participant schema version or outbox protocol on the next page.
4. Re-enable MSATS creating files, in your nominated aseXML version.

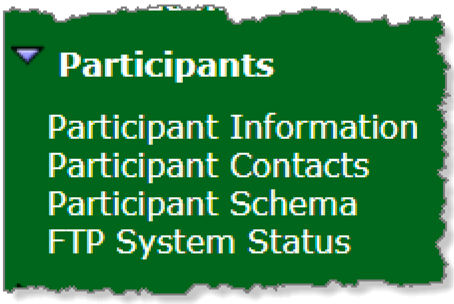
Change your participant schema version or outbox protocol

These instructions assist participant administrators to change, for a Participant ID:

1. The aseXML schema version.
2. The Participant Outbox protocol for different CATS, NMID, or MDMT Transaction Groups: FTP, API-Pull, API-Push.

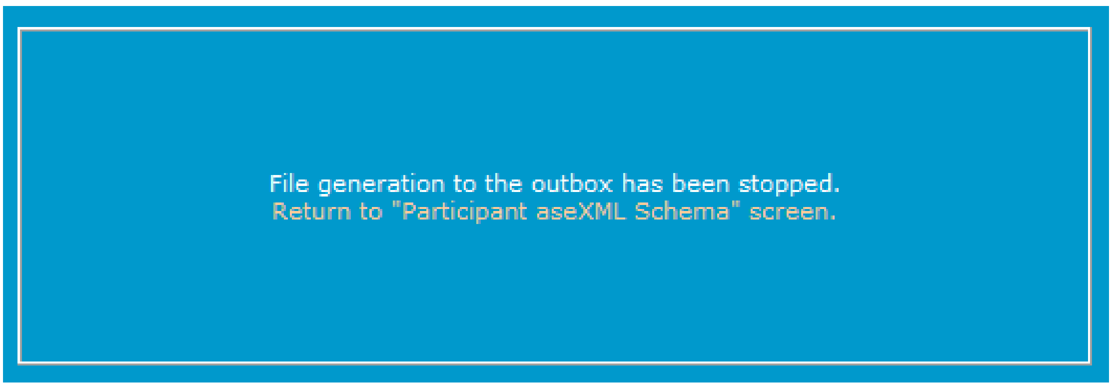
To change your participant schema version:

1. In the MSATS main menu, click Participants and then click Participant Schema. Schema information relating to your participant ID displays.

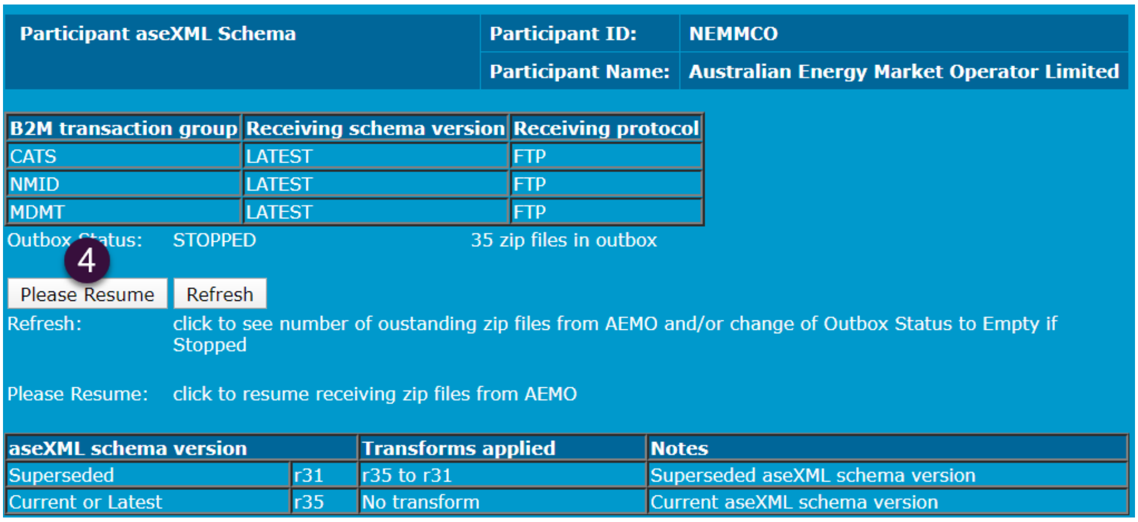


2. To stop the output of files, click Please Stop (see Participant aseXML schema on the previous page).
3. The stopped message appears, click Return to Participant aseXML Schema interface.

   The acknowledgement process is not stopped when output file production is stopped. Acknowledgements conform to the schema version as selected at the time of creation of the acknowledgement. To avoid a mixture of current and superseded versions of acknowledgement files, stop sending files and delete the already-acknowledged zip files in your inbox.

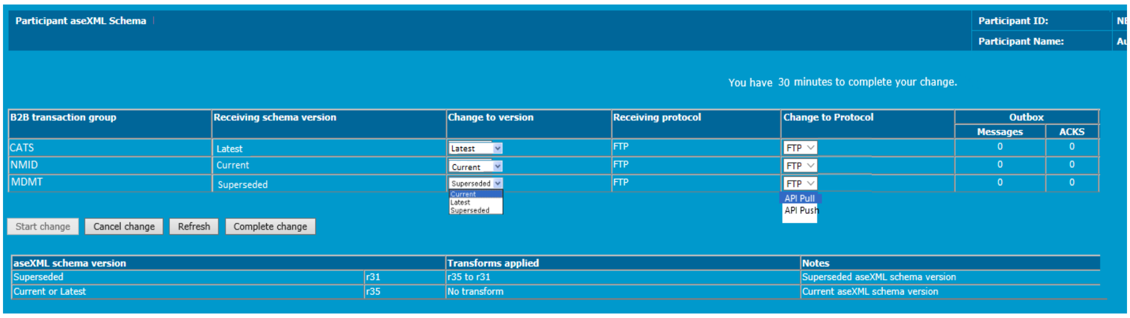


4. The Please Stop button changes to Please Resume. Click Refresh to refresh the display of the Outbox Status until the status is Empty (for example, zero .ZIP files in the outbox, excluding acknowledgement files and B2B files).

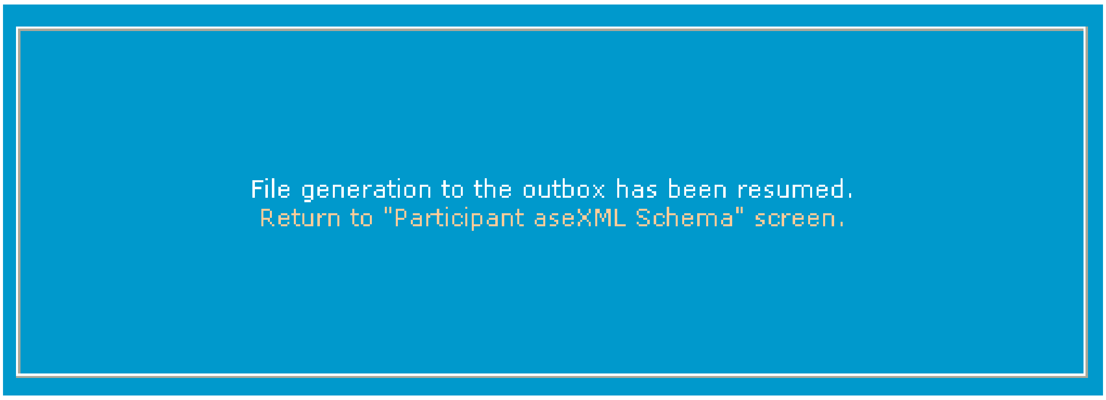


5. The Change to version and change to protocol drop-downs become active, click the drop-down arrow and select your new version or protocol from the list.

Ensure your participant system is ready to receive files conforming to your chosen schema or protocol.



6. Click Complete change. The resumed message displays, click Return to "Participant aseXML Schema" interface. Your aseXML version or protocol is changed and files are produced in the nominated schema version sent using your selected protocol.



FTP system status

About FTP System Status

The FTP System Status submenu provides feedback to participants about the status of their processing by MSATS systems (such as batch handlers), and about any changes to the status of their processing by MSATS systems. The available statuses are: Running, Skipped, Stopped, and Down.

The FTP System Status is also available using AEMO's web services, see Guide to NEM Retail B2M APIs.

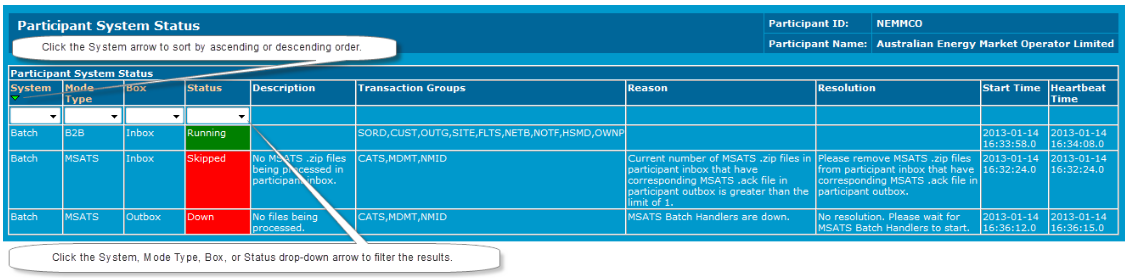
FTP System Status user access rights

Participant Administrators control access to FTP System Status using the FTP System Status entity in the Administration menu in the MSATS Web Portal.

For more details about participant administration and user rights access, see Guide to User Rights Management.

Viewing FTP System Status

1. Click the Participants->FTP System Status link on the MSATS main menu.
2. The FTP System Status interface displays.
3. Click the System, Mode Type, Box, or Status drop-down arrows to filter the results.
4. Click the System arrow to sort by ascending or descending order.



System	Mode Type	Box	Status	Description	Transaction Groups	Reason	Resolution	Start Time	Heartbeat Time
Batch	B2B	Inbox	Running		SORD,CUST,OUTG,SITE,FLTS,NETB,NOTF,HSMD,OWNP			2013-01-14 16:33:58.0	2013-01-14 16:34:08.0
Batch	MSATS	Inbox	Skipped	No MSATS .zip files being processed in participant inbox.	CATS,MDMT,NMID	Current number of MSATS .zip files in participant inbox that have corresponding MSATS .ack file in participant outbox is greater than the limit of 1.	Please remove MSATS .zip files from participant inbox that have corresponding MSATS .ack file in participant outbox.	2013-01-14 16:32:24.0	2013-01-14 16:32:24.0
Batch	MSATS	Outbox	Down	No files being processed.	CATS,MDMT,NMID	MSATS Batch Handlers are down.	No resolution. Please wait for MSATS Batch Handlers to start.	2013-01-14 16:36:12.0	2013-01-14 16:36:15.0

Transactions

About transactions

The Transactions menu is used to facilitate the process of consumer connection point transfers and the management of Standing Data. Transactions are completed using either the web portal or the batch handlers; this user guide focuses on transactions using the web portal. For help using the batch handlers, see using the File Interface in Introduction to MSATS.

MSATS Transactions are also available using the batch interface See Using the File Interface in Introduction to MSATS.

The Transactions menu is a subsystem within MSATS and is referred to throughout this guide as CATS. Using the CATS system, participants can administer and transfer information regarding consumer connection points between participants. This involves four key types of transactions: Change Requests, Objections, Notifications, Requests for data.

For help understanding the fields in the Transactions menu, see the following resources:

- CATS and WIGS Procedures
- MDM Procedures

- Technical Guide to MSATS
- Standing Data for MSATS

Transactions user rights access

Participant Administrators control access to Transactions using the Transactions (Change Requests, Objections, Notifications & Data Requests) entity in the Administration menu in the MSATS Web Portal.

Change requests

What are change requests?

Change requests are the transaction types participants submit to MSATS to create or update NMI Standing Data. Change requests include:

- Names and relationships of incumbent companys having Roles associated with the NMI.
- Standing details required to support PPS, BMP, Data Aggregation and Settlement.
- Standing details required to support NMI Discovery.
- Standing details in the Metering register, which includes Standing Data about Metering installations, including meter register data.

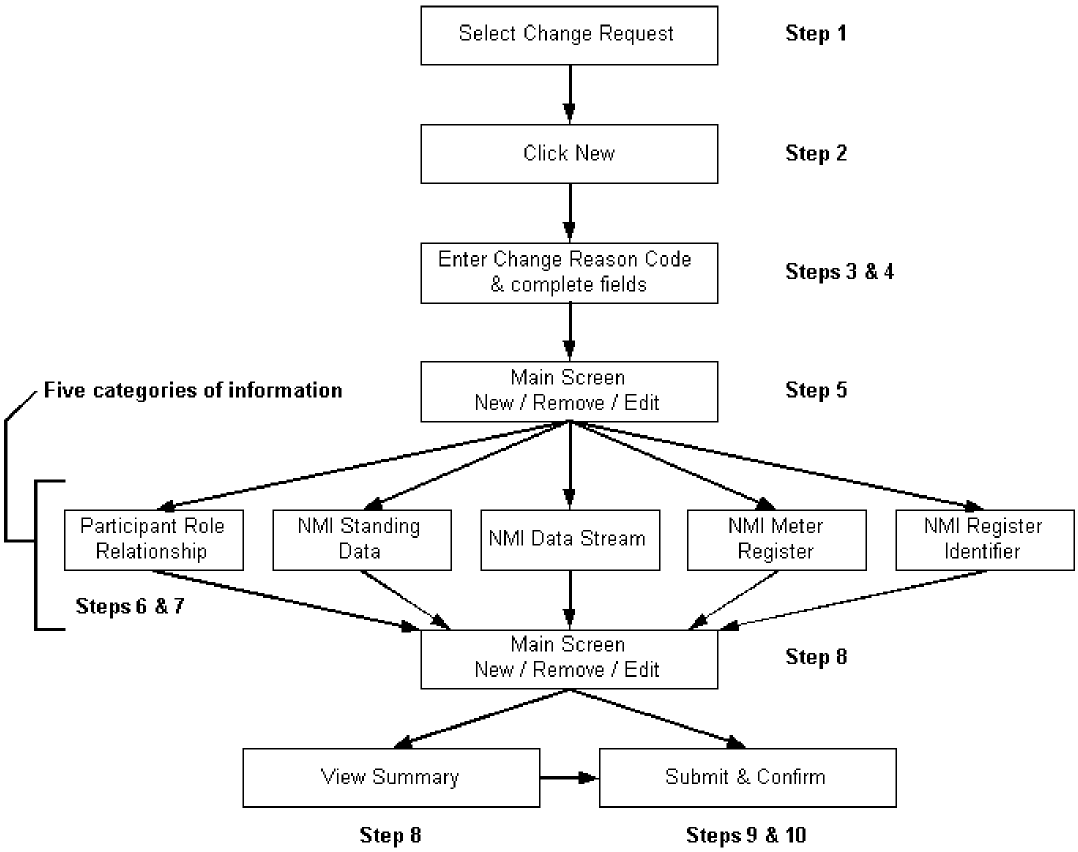
A change request is a temporary transaction that goes through a life cycle similar to the following:

- The initiating participant creates the change request and specifies which data to change and when.
- Other parties involved in the change request are notified of the change, and when it is to take place.
- If those notified have a right to object, they can submit an objection.
- All parties (including the initiator) are notified that an objection has occurred.
- The party that submitted the objection may subsequently withdraw it.
- Assuming all objections are withdrawn before a specified number of days, the change is eventually completed.
- If the change was objected to and the objection was not withdrawn, then the change is eventually cancelled by MSATS.

Generic steps of a change request

To demonstrate the generic steps involved in creating a change request, the steps in the following example use change reason code 1000, (change of transaction) and edits the participant Role relationship category (other categories cannot be changed for the change reason code 1000).

Figure 3 Generic change request steps



As shown in Steps 6 and 7, there are five categories of accessed information, depending on the change reason code used:

- Participant Role relationships
- NMI Standing Data
- NMI Datastream
- NMI meter register
- NMI register identifier

For each category, a list of records appears on the change request transaction. If records appear in the list for a particular category, then information records are already linked. These information records may be changed. If the list is blank, then the participant must create new information records for that category. All relevant information must be present in these category lists for the change request to pass validation.

A change request is not completed until all of the following conditions are met:

- The proposed date has passed.
- The objection period has passed.
- The change request does not have any active objections lodged against it.
- It is not waiting for an actual change date to be returned by another party.

When all conditions are met, the change request moves to completed status and the new participant name appears as the FRMP on the main interface.

You can also:

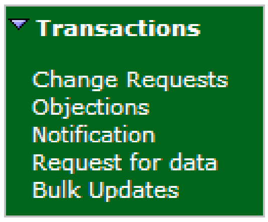
- Acknowledge a change request (see Data Load Import on page 143).
- View a change request response (see Data Load Import on page 143).

For help understanding the change request rules, see Administration on page 213.

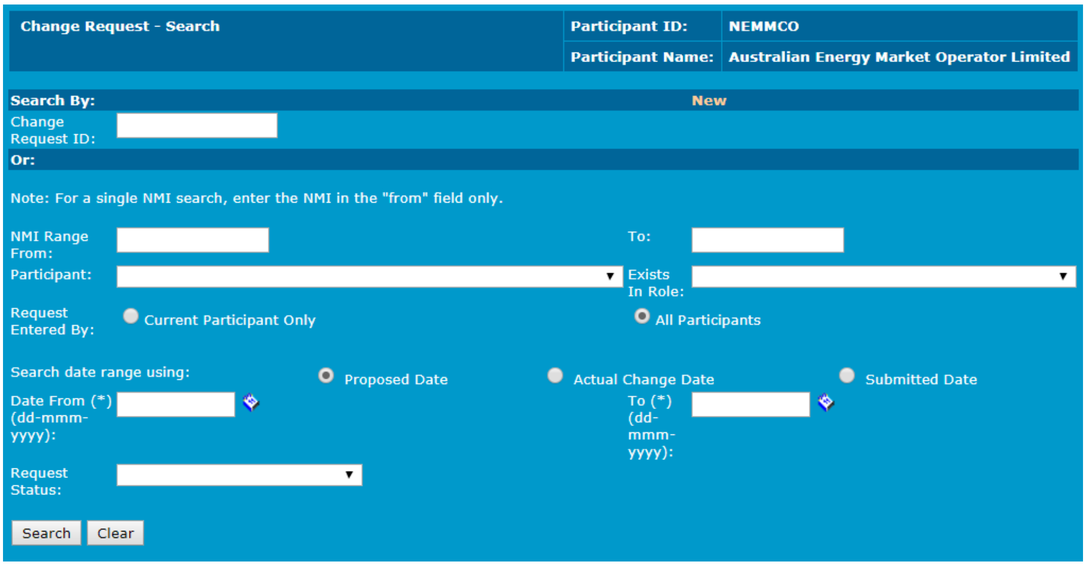
Searching for a change request

To search for change requests:

1. On the main menu, click Transactions and then click Change Requests.



2. The Change Request - Search interface displays. To search for a change request do one of the following:
   - Enter the Change Request ID in the Search By: section and click Search.
   - Enter the change request details in the fields in the Or: section and click Search. The Date From and To fields are required.



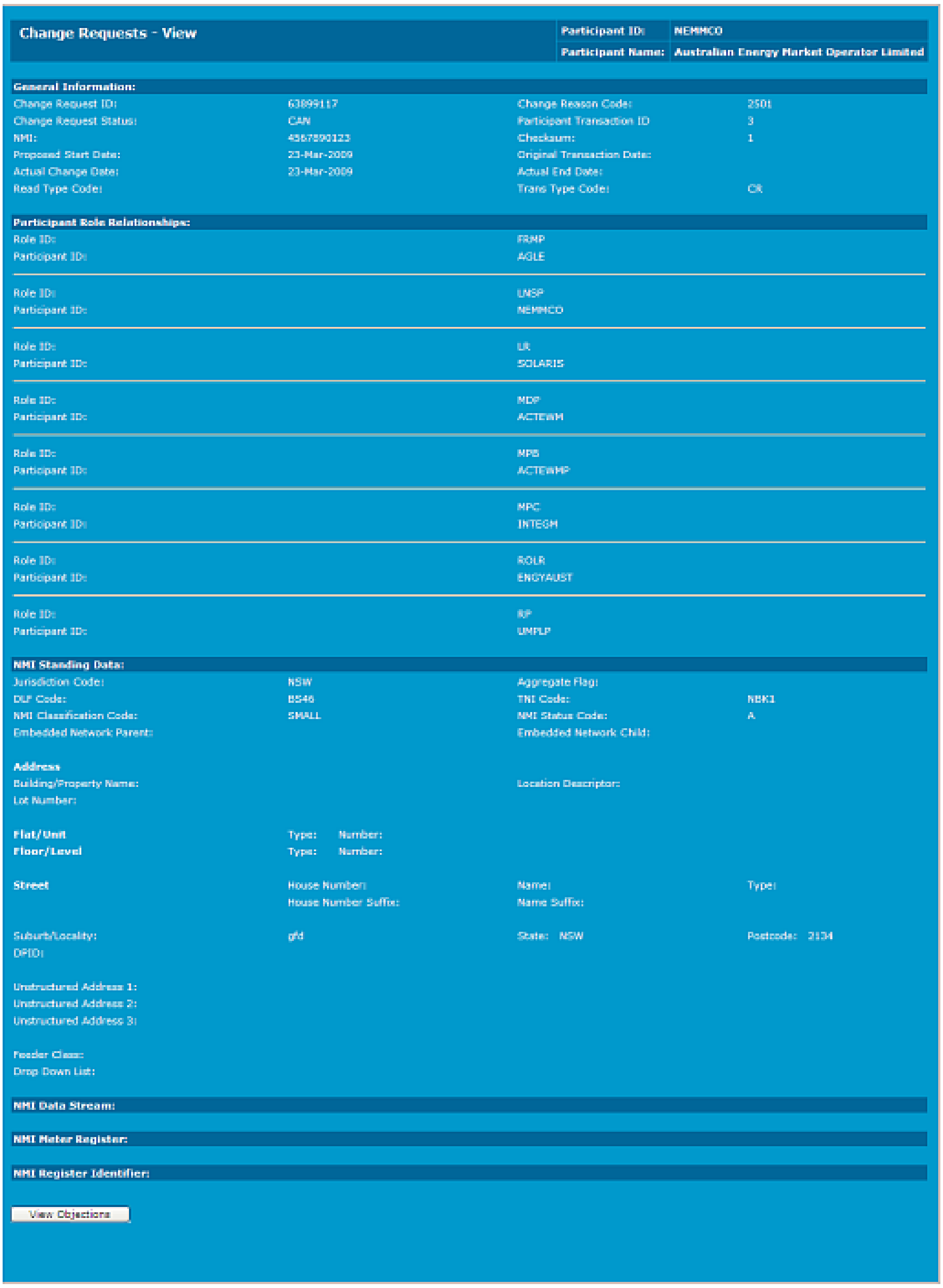
3. The Change Request - List interface displays the results with the following options in the Action column:
   - View the change request details (see Change Requests - View on page 43).
   - Show All displays change request history (Viewing change request history on page 49).

Change Requests - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Change Requests:

Request ID	Related Request ID	Participant ID	NMI	Change Request Code	Status	Event Code	Proposed Change Date	Objection Period End Date	Created On	Action
936995174		PARTID	4103836550	6800	REJ	1101	8-Nov-2017		8-Aug-2017	• View • Show All
936995185		PARTID	4103827170	6800	REJ	1101	8-Nov-2017		8-Aug-2017	• View • Show All
936995101		PARTID	4102345880	6800	REJ	1101	6-Nov-2017		7-Aug-2017	• View • Show All

Figure 4 Change Requests - View



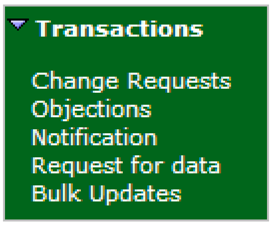
To return to the Change Request - Search interface, on the main menu click Transactions and then click Change Requests.

Creating a new change request

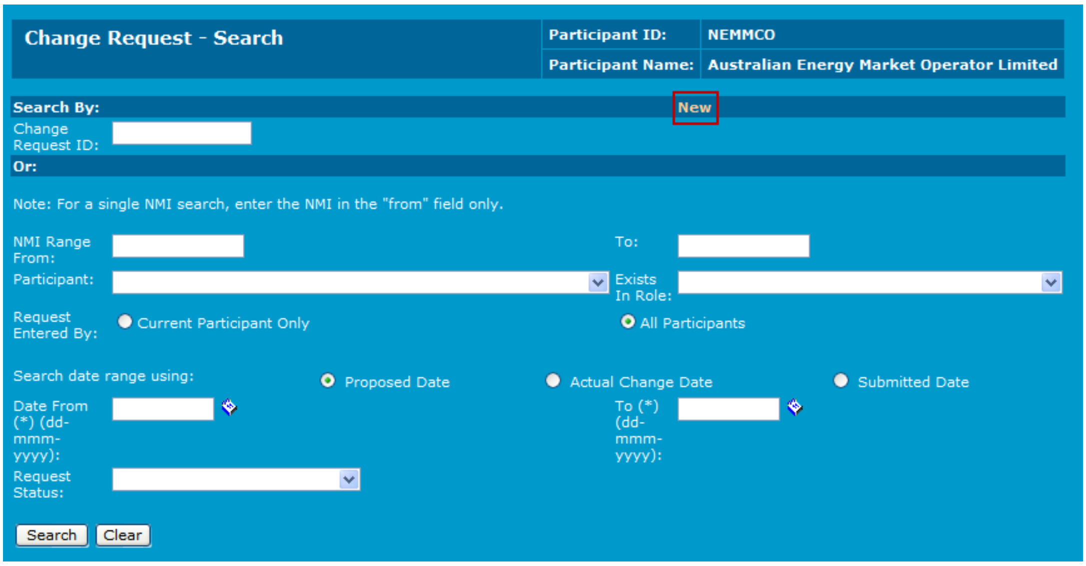
Creating a new change request allows participants to add an item to the change request, for example a new Datastream, meter, or meter register.

To create a new change request:

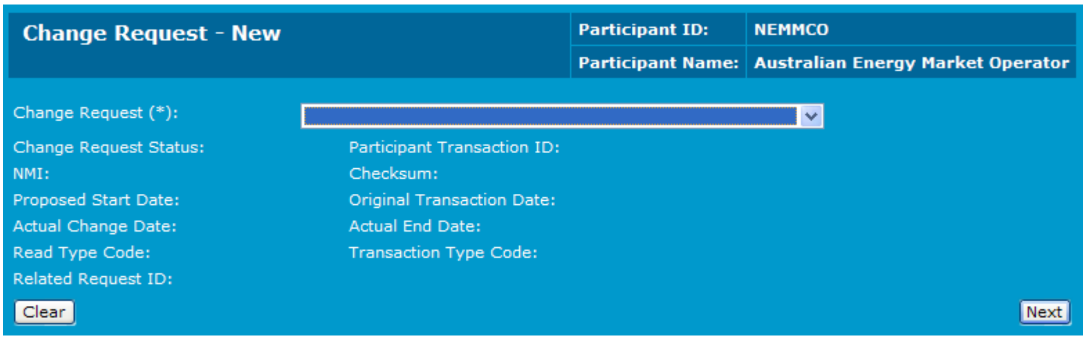
1. On the main menu, click Transactions and then click Change Requests.



2. The Change Request - Search interface displays, click New.

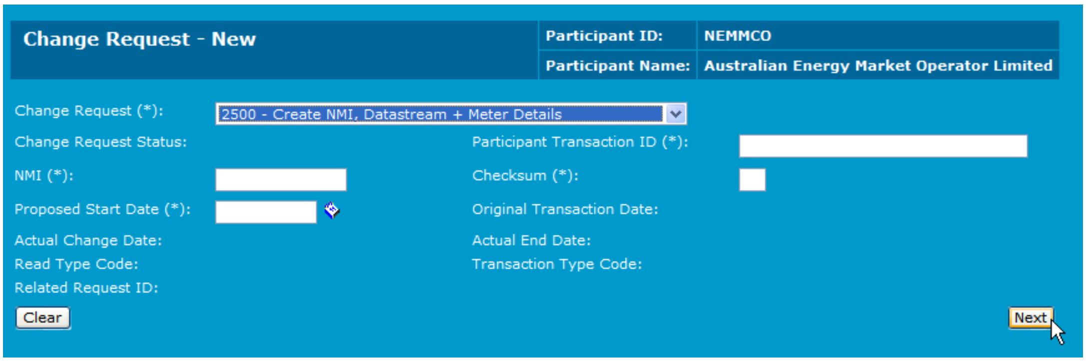


3. The Change Request - New interface displays. Click the Change Request drop-down arrow to select a change reason code. The change reason code selected determines the type of transaction to create. To learn more about change reason codes, Administration on page 213.
4. Click Next.

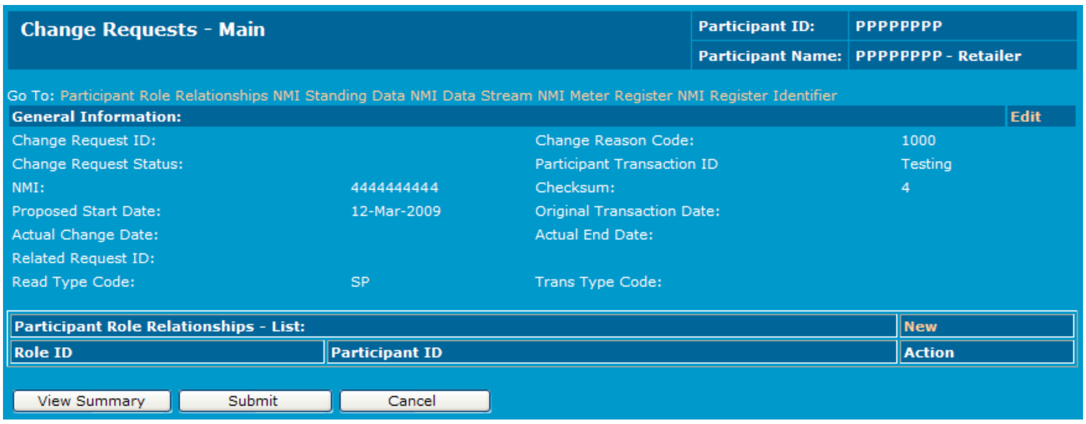


5. Complete the required fields and any other optional fields and click Next.

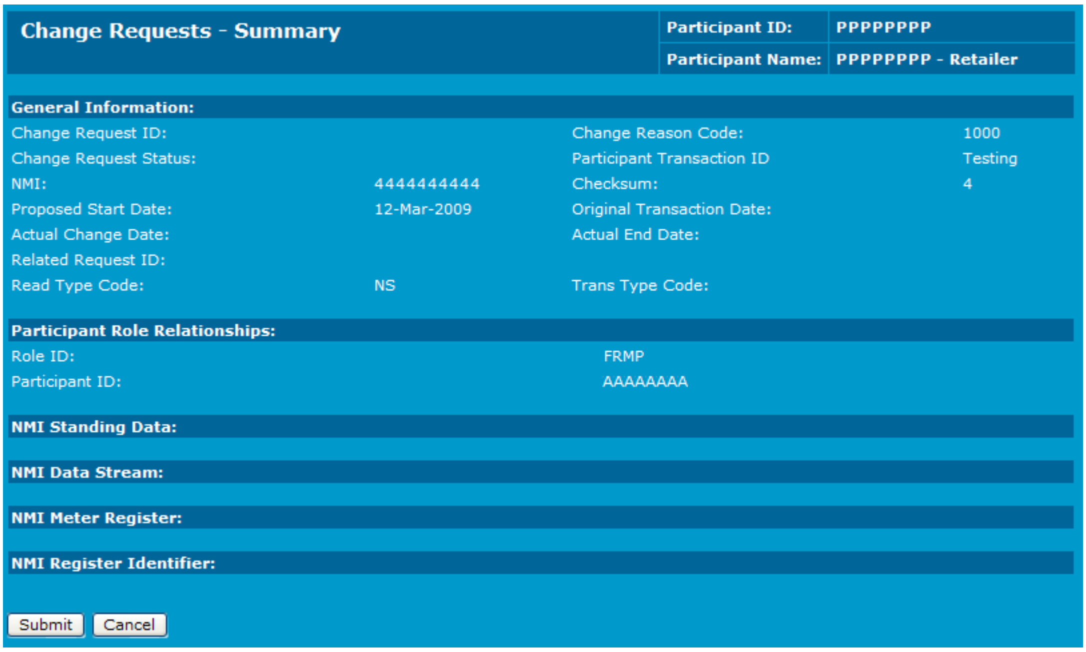
The fields differ depending on the change reason code selected. The example below displays the fields for the change reason code 2500 (Create NMI, Datastream + Meter Details).



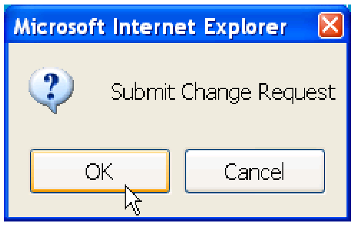
6. The Change Request - Main interface displays, click View Summary to review the details.



7. The Change Request - Summary interface displays, review the details and do one of the following:
   - Click Submit to create the new change request.
   - Click Cancel to cancel the submission (not submit any changes).



8. Click OK to confirm the submission.



9. Confirmation of the change request submission displays with your Change Request ID.

The ID appears on all change request notifications and is used to locate and track its progress.

The change request is saved, but the master record is not updated until the change request reaches Completed status. This occurs at the end of the objection and nominated proposed date period.

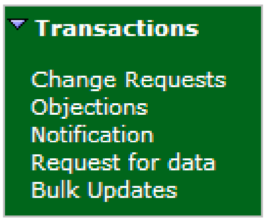
It is possible for change requests of the same type to be active at the same time against the same NMI, except for 1xxx series change requests (for which concurrent validation is disallowed).

Editing a change request

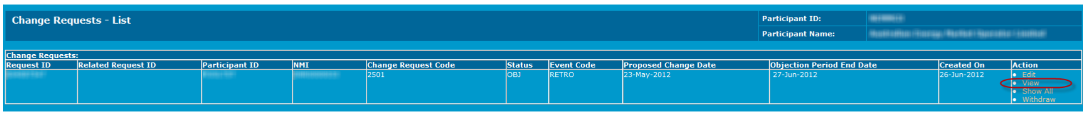
Editing a change request allows participants to edit existing Standing Data details for the nominated item (for example, Datastream, meter or meter register) or to change existing information about a change request.

Removing an item from a change request allows participants to delete items already on the change request (assuming they are not protected by any business rules).

To edit an existing change request:



1. On the main menu, click Transactions and then click Change Requests.
2. The Change Request - Search interface displays. Search for the change request to edit (Searching for a change request on page 41).
3. Click View in the Action column next to the Request ID.



4. The Change Request - Main interface displays, do one of the following:
   - Click Edit make the changes to Standing Data or a category list.
   - Click Remove to delete items that have already been put on the change request.

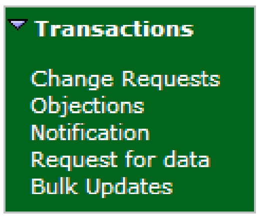
Note: If you cannot see Remove in the Action column, the data is protected by business rules and cannot be removed.

5. The Change Requests - Edit interface displays, make the required changes and click Save.

Withdrawing a change request

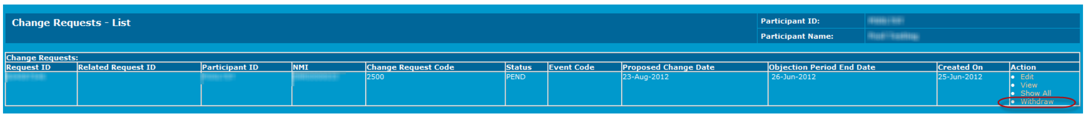
A change request transaction can only be withdrawn if it is not complete, cancelled, or rejected. The status is then changed to cancelled (CAN).

To withdraw a change request:

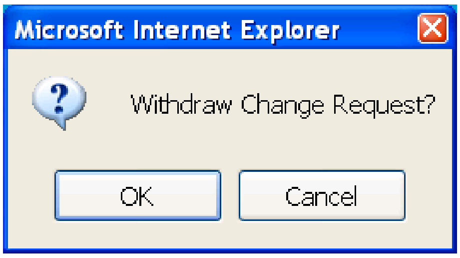


1. On the main menu, click Transactions and then click Change Requests.
2. The Change Request - Search interface displays. Search for the change request to withdraw (Searching for a change request on page 41).
3. The Change Request - List interface displays. Click Withdraw in the Action column next to the Request ID.

Note: if you cannot see the Withdraw link in the Action column, the change request cannot be withdrawn.



4. Click OK to confirm the change request withdrawal.

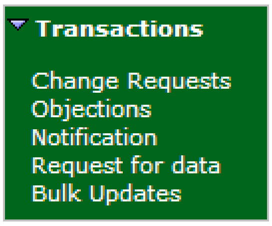


Viewing change request history

Inactive change request records are purged after a certain time and are no longer viewable.

The Change Request - Show All interface displays change request history such as:

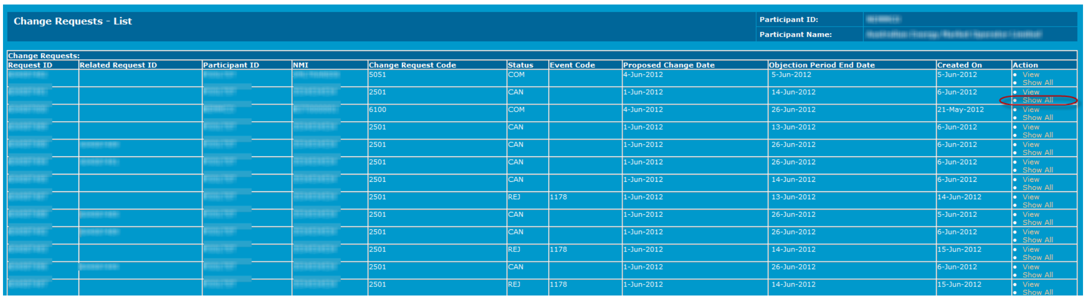
- Transaction details in its original state before any modifications.
- A full audit trail of the transaction life cycle.



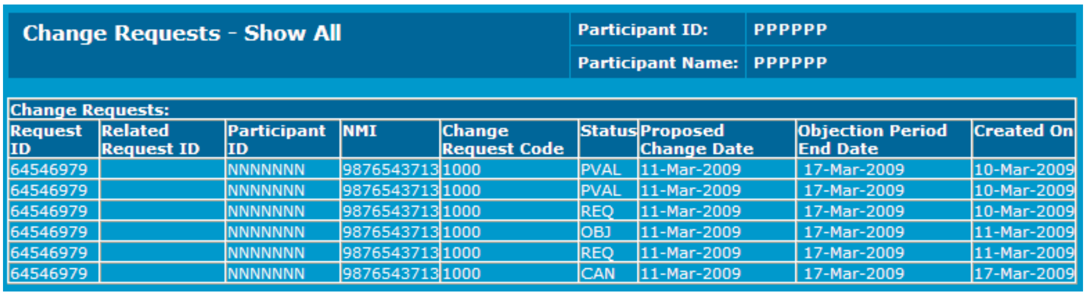
To view change request history:

1. On the main menu, click Transactions and then click Change Requests.
2. The Change Request - Search interface displays. Search for the change request to withdraw (Searching for a change request on page 41).

3. The Change Request - List interface displays. Click Show All in the Action column next to the Request ID.



4. The Change Request - Show All interface displays the change request history.



Change Requests - Show All | Participant ID: PPPPPP | Participant Name: PPPPPP

Change Requests:

Request ID	Related Request ID	Participant ID	NMI	Change Request Code	Status	Proposed Change Date	Objection Period End Date	Created On
64546979		NNNNNNN	9876543713	1000	PVAL	11-Mar-2009	17-Mar-2009	10-Mar-2009
64546979		NNNNNNN	9876543713	1000	PVAL	11-Mar-2009	17-Mar-2009	10-Mar-2009
64546979		NNNNNNN	9876543713	1000	REQ	11-Mar-2009	17-Mar-2009	10-Mar-2009
64546979		NNNNNNN	9876543713	1000	OBJ	11-Mar-2009	17-Mar-2009	11-Mar-2009
64546979		NNNNNNN	9876543713	1000	REQ	11-Mar-2009	17-Mar-2009	11-Mar-2009
64546979		NNNNNNN	9876543713	1000	CAN	11-Mar-2009	17-Mar-2009	17-Mar-2009

Creating participant role relationships

An additional Role of NSP2 is created for all wholesale connection points. This is completed by AEMO after the NMI is created.

Participant Role relationships define the Roles played by Market Participants against a particular NMI record.

The Roles assignable to participants for a NMI are:

FRMP	Financially Responsible Market Participant	MPB	Metering Provider - Maintenance
LNSP	Local Network Service Provider	MPC	Metering Provider - Data Collection
LR	Local Retailer	ROLR	Retailer of Last Resort
MDP	Metering Data Provider	RP	Responsible Person

When the above Roles are selected during the change request process, they are only nominated for assignment to the NMI. When the change request is in Completed (COM) status the NMI details, including Role relationships, are saved permanently.

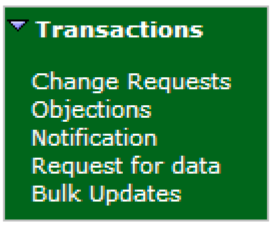
The Roles against a current change request can be modified up to the date that the change request is in a status of complete (COM). However, if any information in a change request is modified while it is in progress, the change request is assigned a new Request ID and the cycle restarts.

When a NMI is created, all the Roles must be allocated on the change request for setting up the NMI. Based on the current CATS procedures, this change request is normally created by the LNSP. All participants that are nominated in a Role against a new NMI are sent a notification (to the participant outbox) informing them of the NMI and the Role the LNSP has asked them to undertake. These participants then have all the information required to object to this nomination.

Once a NMI is created, specific change requests are entered to change individual Roles or groups of Roles. For example, there is a specific change reason code used to change the local transaction, allowing only that Role to change. Change requests to change Retailer (for example, CR1000) generally allow specification of a new FRMP, MDP, RP, MPB and MPC.

To add a new participant Role relationship:

1. On the main menu, click Transactions and then click Change Requests.



2. The Change Request - Search interface displays. Search for the change request (Searching for a change request on page 41).

3. The Change Request - List interface displays. Click View in the Action column next to the Request ID.

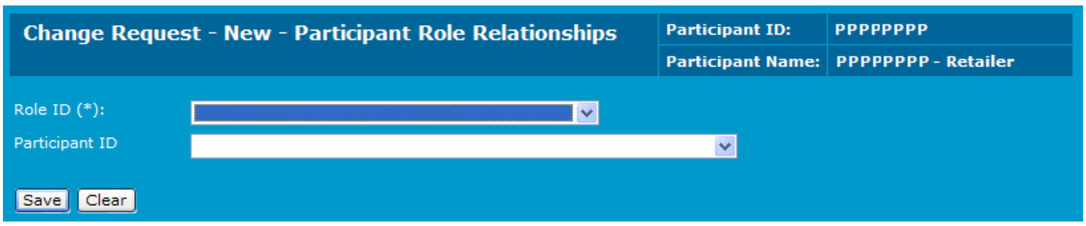
4. On the Change Request - Main interface, in the Participant Role Relationship section, click New.

5. The Change Request - New - Participant Role Relationships interface displays. Click the Role ID drop-down arrow and select from the list.

   Note: a required Role cannot be removed, only replaced with another Role.

6. Click the Participant ID drop-down arrow and select from the list.

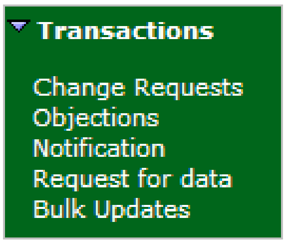
7. Click Save.



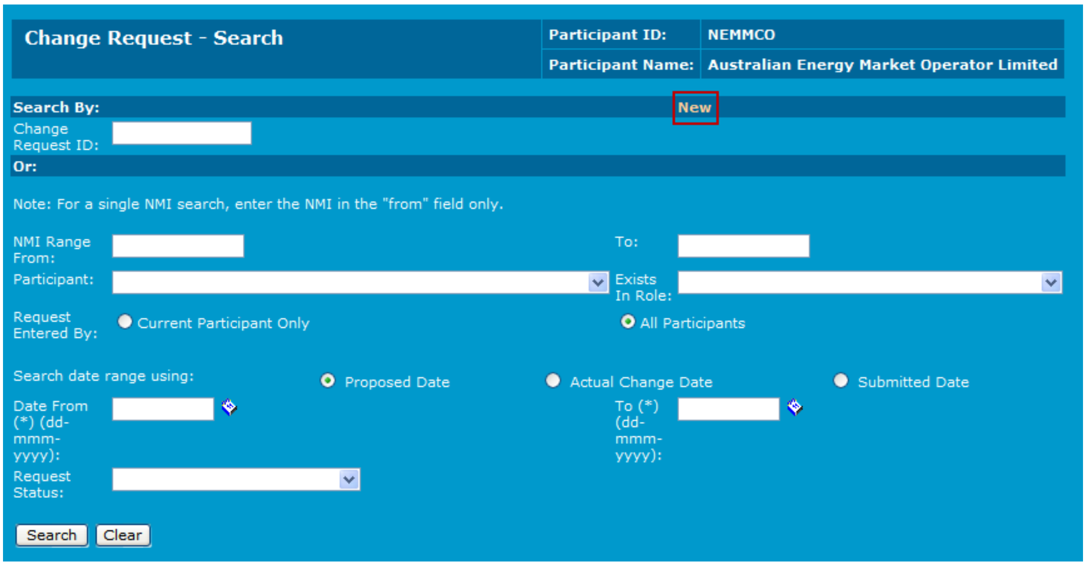
Creating or editing NMI standing data

NMI Standing Data is the information captured against a NMI that includes its NMI classification, TNI and DLF codes and details of its physical location.

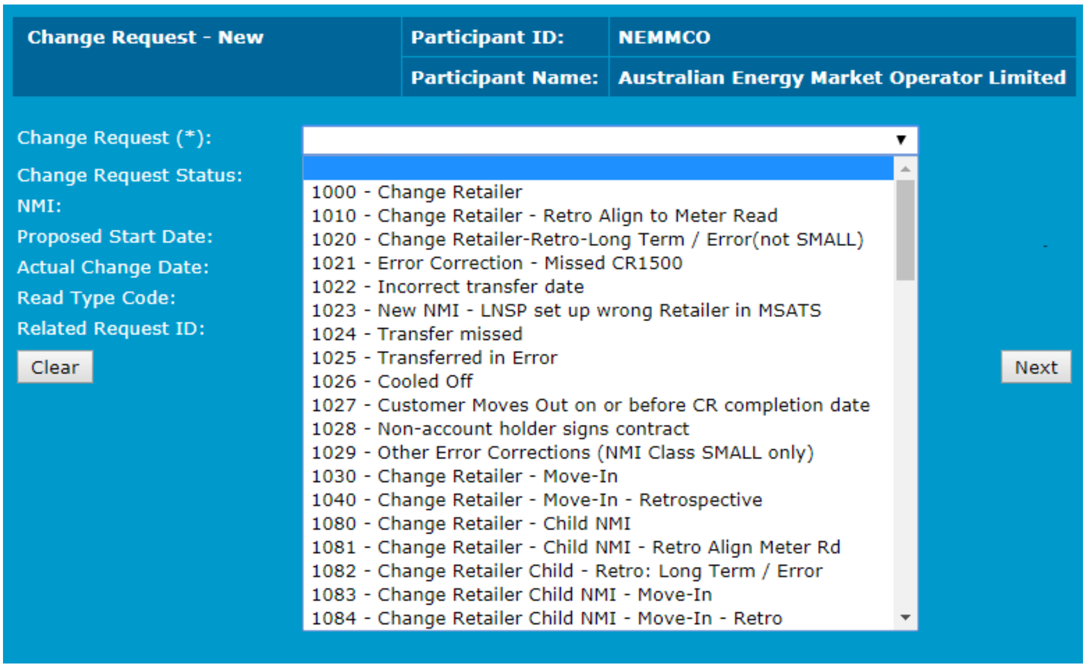
To create NMI Standing Data:



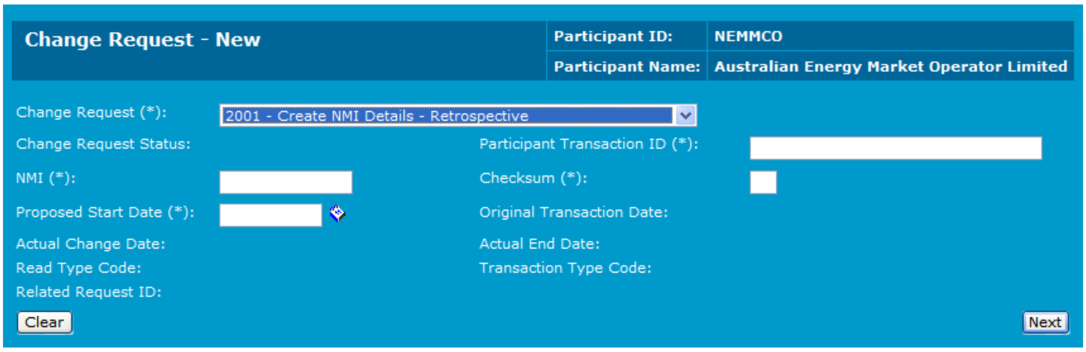
1. On the main menu, click Transactions and then click Change Requests.
2. The Change Request - Search interface displays, click New.



3. The Change Request - New interface displays. Click the Change Request drop-down arrow to select a change reason code for example, Create NMI Details (2001 or similar) or Change NMI Details (5051 or similar). The change reason code selected determines the type of transaction to create. To learn more about change reason codes, Administration on page 213.



4. The fields for the selected change reason code display. Type the NMI details and click Next. For help understanding the fields, see NMI Standing Data fields on page 56.



5. The Change Request - Main interface displays. Scroll to the NMI Standing Data - List at bottom of the interface. For both new and existing NMI records, if there is no information displayed in the list; click New.

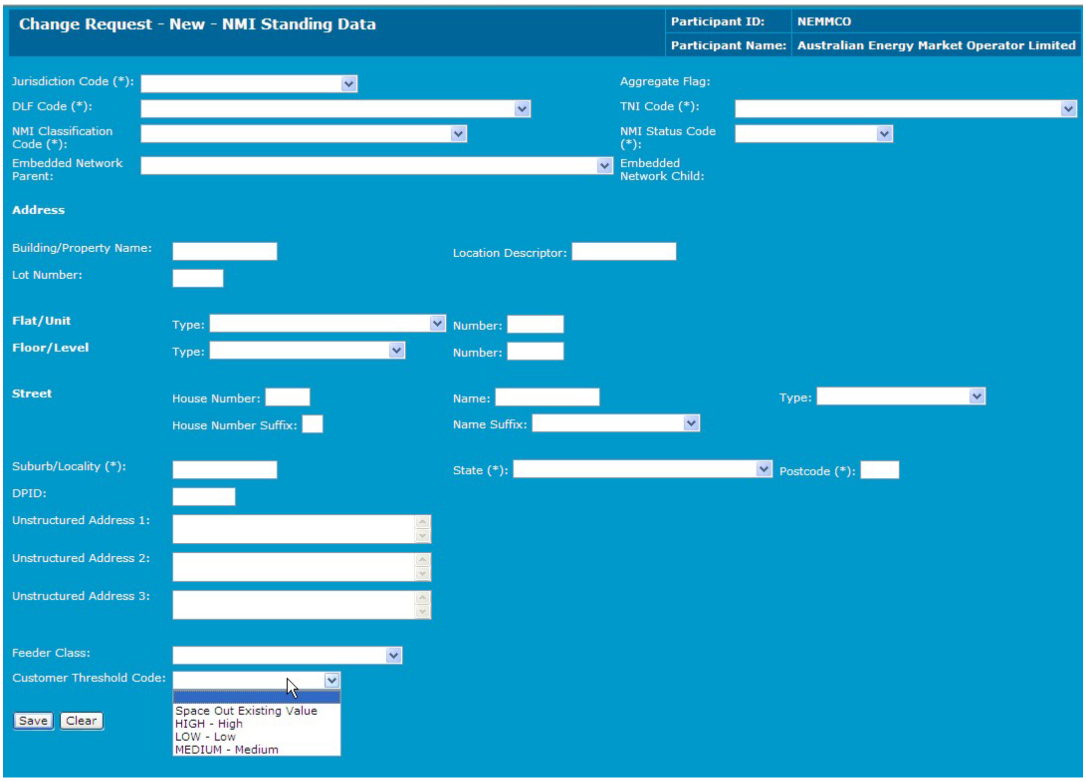
   Note: if the NMI Standing Data - List heading is not displayed, you cannot create or modify NMI Standing Data using the selected change reason code.

6. The Change Request - NMI Standing Data interface displays. Type your changes and click Save.

    ◦ For a new NMI, complete the required fields, marked with an asterisk (*) and any other optional fields.

    ◦ For an existing NMI, only complete the field(s) that you want to change.

    Important Note: if an existing NMI is being changed, all the values in this interface are blank, even if some of them have an existing value. The only existing values displayed are those in the NMI data list on the Change Request - Main interface.



7. Click OK to the confirmation message.

8. The NMI Standing Data record is summarised in the NMI Standing Data - List table. Do one of the following:

    ◦ To make changes to the details before submitting, click Edit.

    ◦ Click Submit to create the new change request.

To create Datastream or Metering details, providing you are using a change reason code that allows (Creating or editing NMI datastreams on page 59, Creating or editing NMI metering installation details on page 64, and Creating or editing NMI register identifier details on page 69).

Note: notice the New option is no longer available.

NMI Standing Data - List:			
Jurisdiction Code	NMI Classification Code	Status Code	Action
NSW	SMALL	A	• Edit

NMI Standing Data fields below explains the NMI Standing Data fields with a brief description. For more information, see **Standing Data for MSATS**.

Table 3 NMI Standing Data fields

Field	Description
Jurisdiction Code*	Jurisdiction code to which the NMI belongs. The jurisdiction is required to enforce validation on a number of rules tables. This is the jurisdiction where the NMI is located, not the jurisdiction where its energy is supplied.
Aggregate Flag	All retail connection points have this flag set to Y. Default to Y if the field is left blank. Options are Y or N.
DLF Code*	Distribution Loss Factor. Must be a valid code stored in the CATS DLF code table.
TNI Code*	Transmission Node Identifier. Identifies a Transmission Network Connection Point. Must be a valid code stored in the CATS TNI code table.
NMI Classification Code*	Used to indicate the NMI classification. Values permitted include SMALL, LARGE, GENERATR, WHOLESAL, INTERCON, EPROFILE, and SAMPLE. Normal retail NMIs have a classification of LARGE or SMALL.
NMI Status Code*	Used to indicate the status of the NMI. Values permitted include A for active NMI, D for De-energised, G for a Greenfield Site and X for extinct NMI.

Field	Description
Embedded Network Parent	Identifies which embedded network this given NMI is the 'parent of'. If, on a NMI record, this field is not populated, it is assumed the NMI is not the parent of an embedded network. Blank for most NMIs.
Embedded Network Child	Identifies the embedded network associated with the NMI. If this field is not populated, it is assumed the NMI is not associated with any other NMI (i.e. it is not in an embedded network). Blank for most NMIs.
Building/Property Name	The full name used to identify the physical building or property location.
Location Descriptor	A general field capturing various references to address locations alongside another physical location.
Lot Number	The reference number allocated to an address prior to street numbering.
Flat/Unit Type	The type of flat or unit, which is a separately identifiable portion within a building or complex. Values permitted include: APT, CTGE, DUP, FY, F, HSE, KSK, MSNT, MB, OFF, PTHS, RM, SHED, SHOP, SITE, SL, STU, SE, TNHS, U, VLLA, WARD, WE.
Flat/Unit Number	The number of the flat or unit, which is a separately identifiable portion within a building or complex.
Floor/Level Type	Used to identify the floor or level of a multi-storey building or complex. Values permitted include B, FL, G, L, LG, M, and UG.
Floor/Level Number	Used to identify the floor or level of a multi-storey building or complex.
House Number	The numeric reference of a house or property - specifically the house number. Note: Do not store the house suffix in this field.
Street Name	The thoroughfare name. Do not include the number of the house or the street type (such as ST or RD).
Street Type	The street type abbreviation. Examples are: ST, RD, AV.

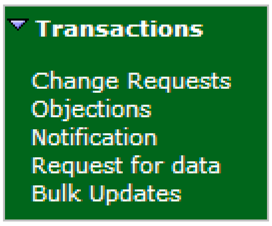
Field	Description
House Number Suffix	The modifier to a numeric reference of a house or property to identify a separate part. Specifically the single character identifying the house number suffix (for example A or B) as in a house number 54A.
Street Name Suffix	Records any street suffixes. Values permitted include: CN, E, EX, OR, N, NE, NW, S, SE, SW, UP, W.
Suburb/Locality*	The full name of the locality.
State*	Defined State or Territory abbreviation. Values permitted include AAT, ACT, NSW, NT, QLD, SA, TAS, VIC, and WA.
Postcode*	The numeric descriptor for a postal delivery area.
DPID	Delivery point identifier allocated by Australia Post - the unique numeric descriptor for the postal delivery point that is equal to a physical address.
Unstructured Address 1	Provide the unstructured address (line 1) where a structured address cannot be supplied. Do not include locality, postcode or state in these fields.
Unstructured Address 2	Provide the unstructured address (line 2) where a structured address cannot be supplied.
Unstructured Address 3	Provide the unstructured address (line 3) where a structured address cannot be supplied.
Feeder Class	Feeder class data provided by participants.
Customer Classification Code	Classifies the customer as BUSINESS or RESIDENTIAL. Set by the FRMP for the NMI. Displays according to the CR request selected.
Customer Threshold Code	Classifies the customer load as LOW, MEDIUM, or HIGH. Set by the DNSP for the NMI. Displays according to the CR request selected.

Creating or editing NMI datastreams

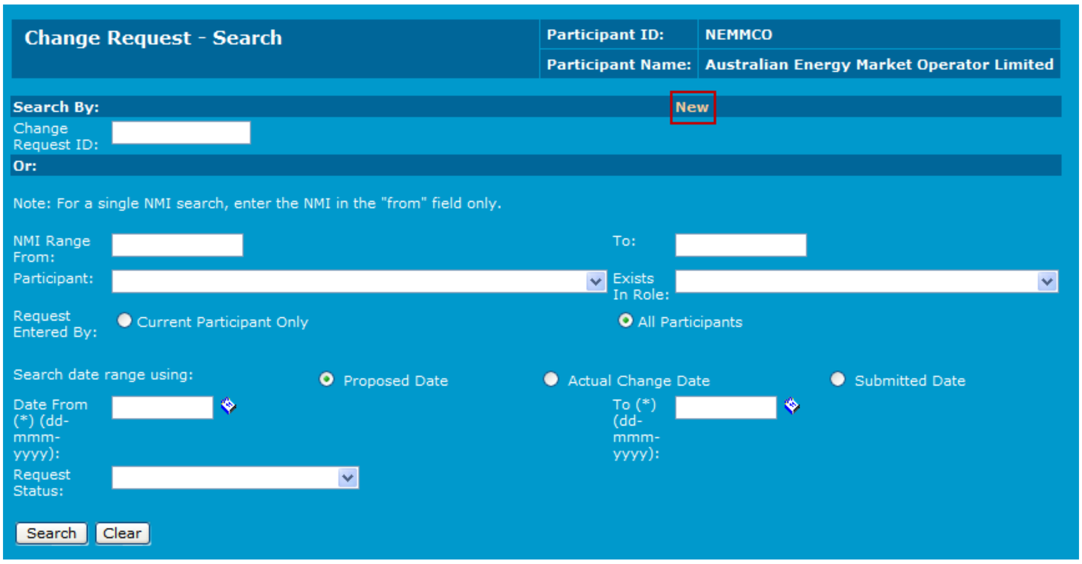
NMI Datastreams define the streams of Metering Data the MDM component of MSATS expects to receive for any NMI (such as, connection point). Datastreams are streams of Metering Data that are associated with a connection point, as represented by a NMI. A NMI can have multiple Datastreams (for example, from one or more meters or from one or more channels or registers that comprise a single meter). Each Datastream is identified by a suffix.

To create a NMI Datastream:

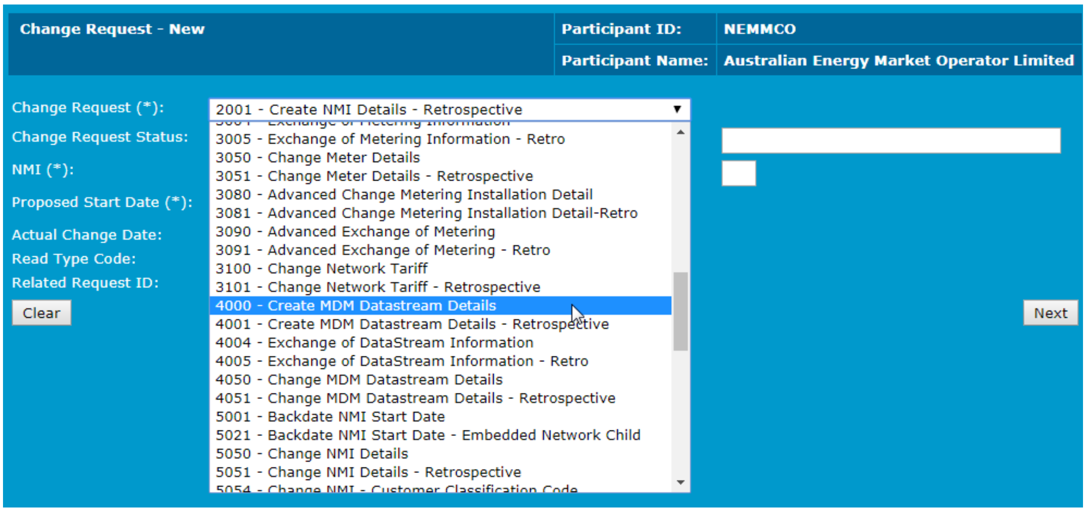
1. On the main menu, click Transactions and then click Change Requests.



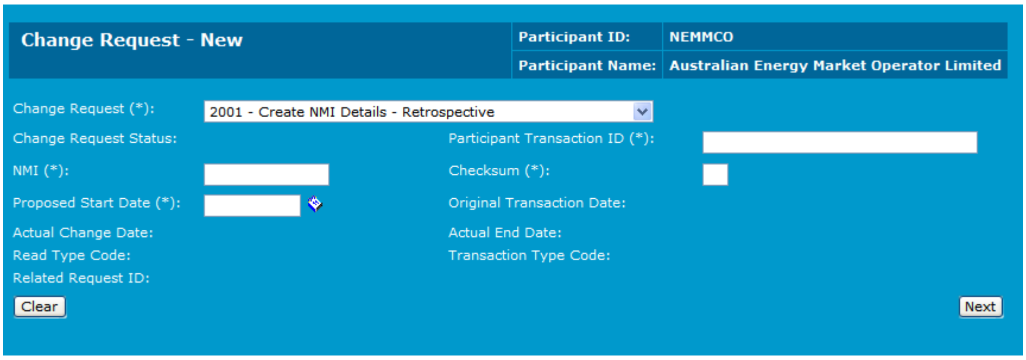
2. The Change Request - Search interface displays, click New.



3. The Change Request - New interface displays. Click the Change Request drop-down arrow to select a change reason code for example, Create MDM Datastreams (4000 or similar). The change reason code selected determines the type of transaction to create. To learn more about change reason codes, Administration on page 213.

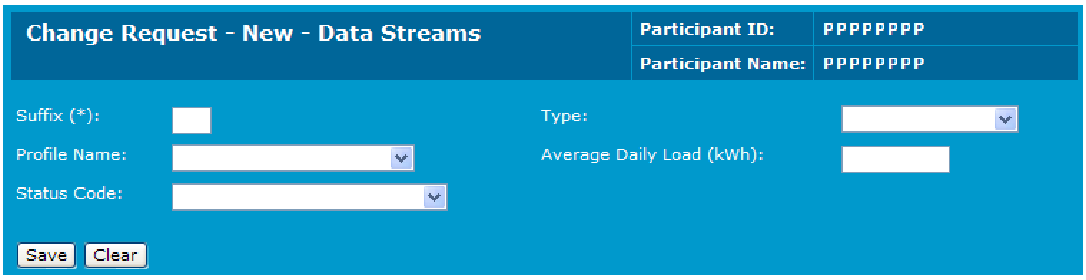


4. The fields for the selected change reason code display. Complete the fields and click Next.



5. The Change Request - Main interface displays. Scroll to the NMI Datastream - List at bottom of the interface and click New.

6. The Change Request - New - Datastreams interface displays. Complete the Suffix field marked with an asterisk (*) and any other optional fields and click Save. For help understanding the fields, see Datastream fields on page 62.



7. Click OK to the confirmation message.

8. The NMI Datastream record is summarised in the NMI Datastream - List. Do one of the following:

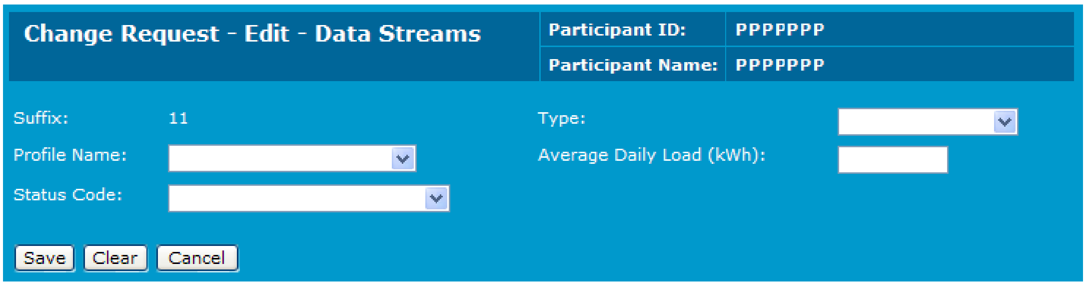
   - To make changes to the details before submitting, click Edit. If you select to edit an existing Datastream, the interface is blank, except for the suffix, even though each field has an existing value. Only complete the field(s) that you want to change. When you click Save, review and confirm the changes.

   - To create a new Datastream record against the NMI, click New.

   - Click Submit to create the new change request.

NMI Data Streams - List:					New
Suffix	Type	Profile Name	Average Daily Load	Status Code	Action
12	C	NSLP	67	A	• Edit

Important Note: if editing an existing NMI Datastream for example, using CR4051 or similar, the existing information is not displayed. The only field visible for NMI Datastreams is the Suffix field.



Datastream fields on the next page explains the Datastream fields. For more details, see MSATS Procedures : CATS Procedure Principles and Obligations.

Table 4 Datastream fields

Field	Description
Suffix*	A two-character identifier used in conjunction with a NMI to identify a particular Datastream. Each Datastream for a single NMI must have a unique suffix. The characters chosen for the suffix have some meaning. The rules for suffixes defined in the **MSATS Procedures : CATS Procedure Principles and Obligations** must be used (for example, suffixes for interval Metering installations begin with N and suffixes for Accumulation Metering Installations are numeric (such as 11).
Type	Used to define what type of Metering Data the MDM expects. The Datastream type code is: I (Interval) if the streams of data contain 48 readings for each 24-hour period, each representing a specified 30-minute interval. This is the case for all interval type Metering installations, where there are actual values for each Settlement period, and non-metered installations, where calculated data is provided. It includes installations defined as types 1-5 and type 7 in jurisdictional metrology procedures. C (Consumption) if the streams of data consist of a single value that represents total consumption since the previous reading and a date, which represents the date the installation was read. Such Metering installations are referred to as Accumulation, Consumption, or Basic meters and are defined as type 6 Metering installations in jurisdictional metrology procedures. There is a further valid Datastream type: P (External Profile Data) This code is used if the data is actually an externally supplied profile shape (rather than one calculated by the MDM), for use in profiling consumption Metering Data, and not actual Metering Data to be settled.

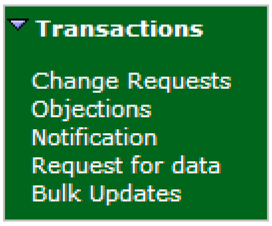
Field	Description
Profile Name	Identifies the name of the profile shape used to allocate a Datastream's consumption to trading intervals. The valid profile names are: NSLP (Net System Load Profile), which is a profile calculated by MSATS. NSLP represents the system load after all actual interval Metering Data or specified previously-calculated profiled Metering Data that is not dependent on the NSLP has been subtracted from a known total system load and represents system-wide usage by consumption-type Metering installations. CLOAD profile names beginning with CLOAD are controlled load profiles. Controlled load profiles are applied to controlled load Datastreams in NSW, SA and QLD. There is one controlled load profile for each LNSP area. The names all begin with CLOAD to indicate they are profile names followed by two characters to indicate the LNSP area to which it belongs. NOPROF is used for interval Datastream types to indicate that such Datastreams do not need to be profiled to obtain ‘readings’ for each Settlement interval because the data is supplied in 30-minute intervals.
Average Daily Load	The electrical energy delivered through a Metering point’s Datastream over an extended period normalised to a "per day" basis, in KWh.
Status Code	Used to indicate the status of the suffix. Options are A - active and I - inactive. A status code is set to A if this Datastream is required by MDM. This is the case if the FRMP is not the same as the LR (the data is required because the connection point requires settling in the wholesale market). Alternatively, its data is required for profile preparation purposes, as specified in jurisdictional metrology procedures. (For example, a jurisdiction may specify that energy usage by all interval-Metering installations must be subtracted from the system load to produce the NSLP. For such Metering installation types, even if the FRMP was the same as the LR, Metering Data is still required.) Controlled load Datastreams are also required by MDM because controlled loads, once profiled based on sample Metering Data, they are also subtracted from the system load as part of the process of calculating the NSLP.

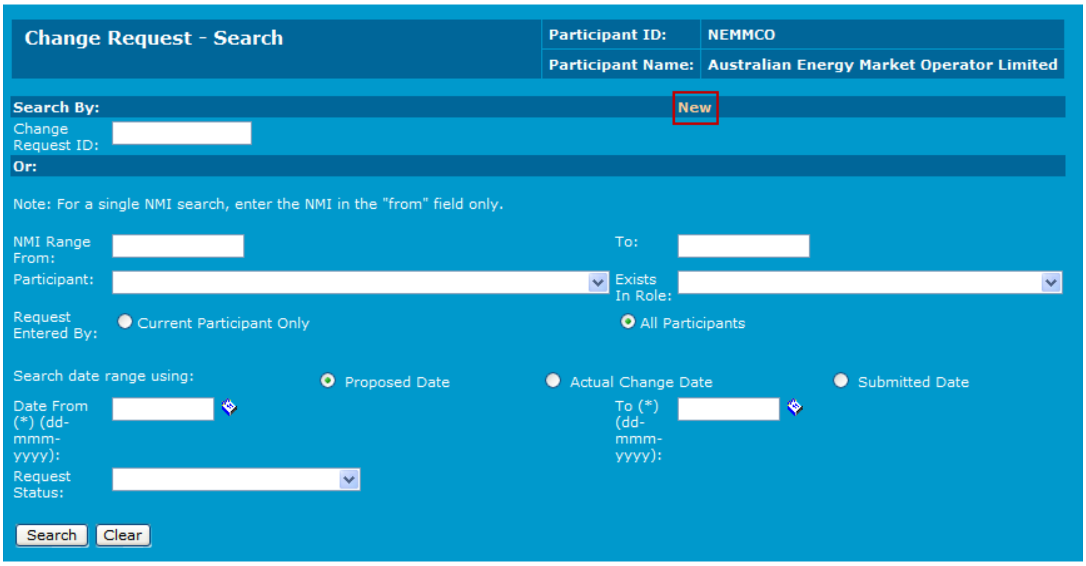
Creating or editing NMI metering installation details

NMI meter register records contain data that is stored about the meters for a given NMI (such as, connection point). Some of the details recorded are the next scheduled read date (if it is manually read), the Metering installation type, the physical location details and the manufacturer's details.

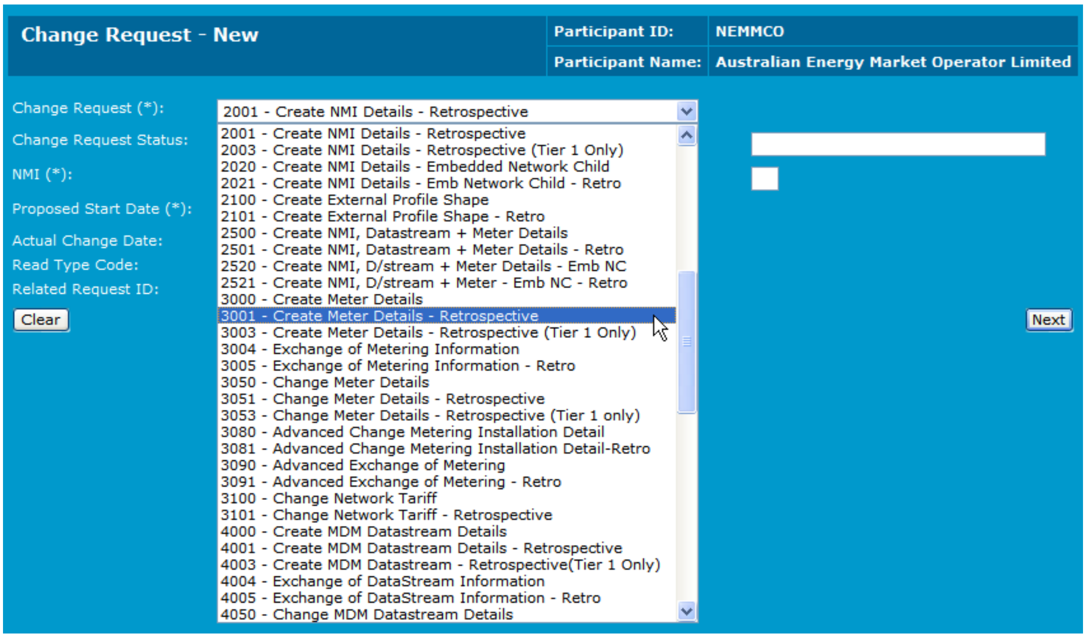
To create a record for a new NMI meter installation:

1. On the main menu, click Transactions and then click Change Requests.
2. The Change Request - Search interface displays, click New.

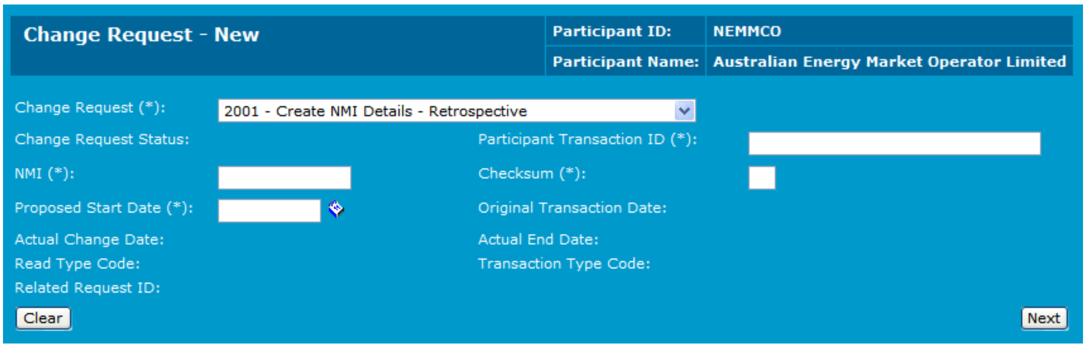




3. The Change Request - New interface displays. Click the Change Request drop-down arrow to select a change reason code for example, Create Meter Details (3001 or similar) or Change Meter Details (3050 or similar). The change reason code selected determines the type of transaction to create. To learn more about change reason codes, see Administration on page 213.



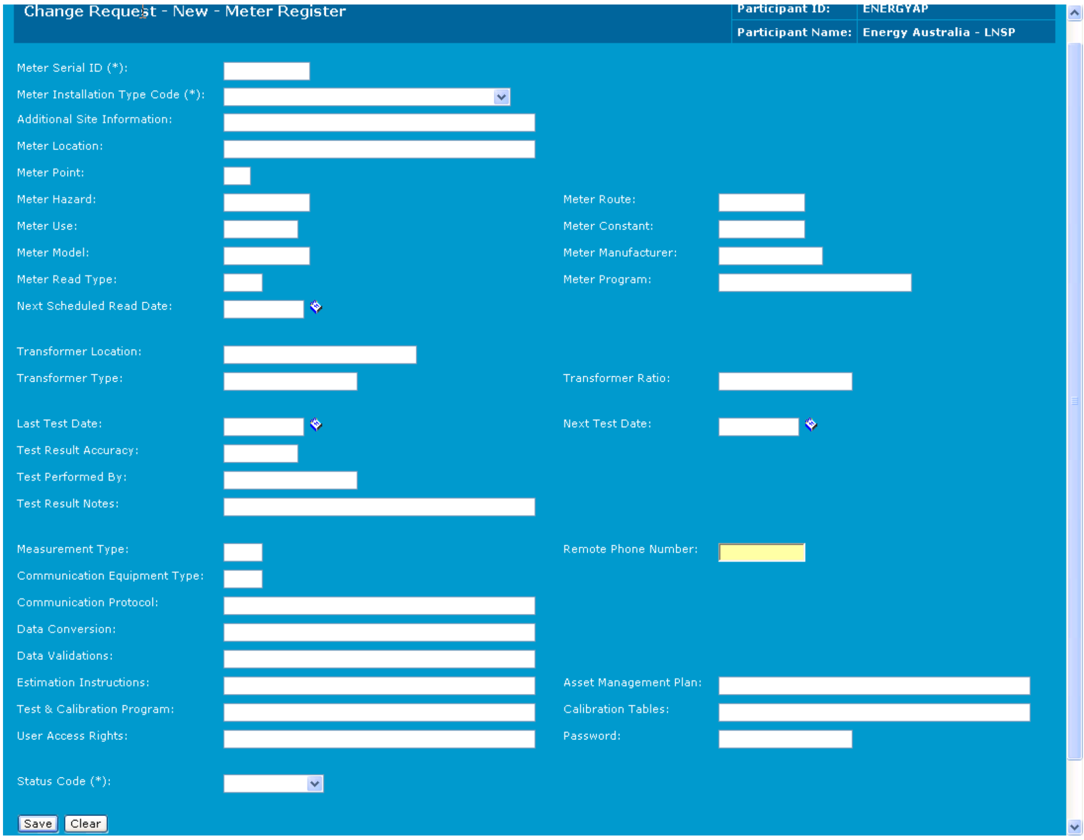
4. The fields for the selected change reason code display. Complete the fields and click Next.



5. The Change Request - Main interface displays. Scroll to the NMI Meter Register - List at bottom of the interface and click New.

   Note: if there are no serial numbers in the list, then there are currently no Metering installations created for this NMI. If the NMI Meter Register - List heading is not displayed, you cannot create or modify Metering installations using this change reason code.

6. The Change Request - New- Meter Register interface displays. Complete each of the required fields marked with an asterisk (*) and any optional fields and then click Save. For help understanding the fields, see NMI Metering Installation fields on the next page.



7. Click OK to the confirmation message.

8. The NMI meter register record is summarised in the NMI Meter Register- List. Do one of the following:

    - To make changes to the details before submitting, click Edit. If you select to edit an existing Metering installation, the interface is blank, except for the Serial ID even though each field has an existing value. Only complete the field(s) that you want to change. When you click Save, review and confirm the changes.
    - To create a new Metering installation record against the NMI, click New.
    - Click Submit to create the new change request.

NMI Meter Register - List:							New
Serial ID	Location	Route	Model	Last Test Date	Next Test Date	Status Code	Action
TRAIN01						C	• Edit

NMI Metering Installation fields below explains the NMI Metering installation fields. For further information, see the document MSATS Procedures: CATS Procedure Principles and Obligations.

Table 5 NMI Metering Installation fields

Field	Description
Meter Serial ID*	The meter serial number uniquely identifies a meter for a given NMI. The same meter serial number can be used more than once providing it belongs to a different NMI.
Additional Site Information	Additional information that describes the location of the Metering installation.
Meter Location	Code or text indicating where the meter is physically located at the premises.
Meter Installation Type Code*	Indicates the Metering installation type: BASIC - Consumption Type Metering installation (type 6) COMMSn - Interval type Metering installations, read remotely (i.e. using a modem). (types 1-4) MRIMManually-read interval Metering installation (type 5) UMCPUnmetered connection point (type 7)
Meter Point	An additional Metering identifier field.
Meter Hazard	Code or text indicating any dangerous conditions identified at the meter site.
Meter Route	The route identifier the meter is currently being read in.
Meter Use	Code indicating revenue meter, check meter, load research, etc.
Meter Constant	Multiplier applied to the meter to arrive at the consumption.
Meter Model	The manufacturer’s model number.
Meter Manufacturer	The manufacturer’s code.

Field	Description
Meter Read Type	Code indicating how the meter is read, examples include mechanical dial, display, local handheld, local laptop, remote dial-up, remote radio, remote mobile.
Meter Program	For programmable meters, identifiers of the program run at the meter.
Next Scheduled Read Date	Indicates the scheduled next manual read date. Only required for NMIs where the Metering Installation Type is Basic or MRIM.
Transformer Location	Indicates where the transformer is in relation to the meter (if installed).
Transformer Type	Type of transformation employed.
Transformer Ratio	Instrument transformer ratios (available and connected).
Last Test Date	Last date the meter was tested.
Next Test Date	Next date the meter is tested.
Test Results Accuracy	The accuracy of the meter from the last test.
Test Performed By	Who performed the last test. Used to store a company or individual name.
Test Result Notes	Any text or further test information.
Measurement Type	Code indicating how the meter is measuring, example values include aggregate consumption, programmable, interval.
Remote Phone Number	The phone number for remote access.
Communication Equipment Type	Indicates modem or other communication device types.
Communication Protocol	Description of how the devices communicate.

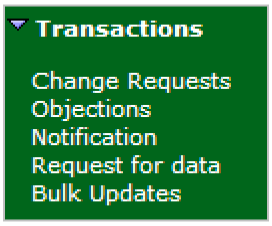
Field	Description
Data Conversion	Description of details needed to translate data received from a communication device.
Estimation Instructions	Description of how the meter is estimated if no read can be obtained.
Asset Management Plan	Description or reference of asset management plan.
Test & Calibration Program	Description or reference of test and calibration plan.
Calibration Tables	Details of any calibration factors programmed into the meter.
User Access Rights	Details of any end use customer access to the Metering installation. Examples include pulse outputs, interface to customer load management system, or customer directly accessing data in meter through special agreement.
Password	Password for gaining remote access to the Metering installation.
Status Code	Indicates whether the Metering installation is current (in use) or has been removed. Valid values are: C - current R - removed

Creating or editing NMI register identifier details

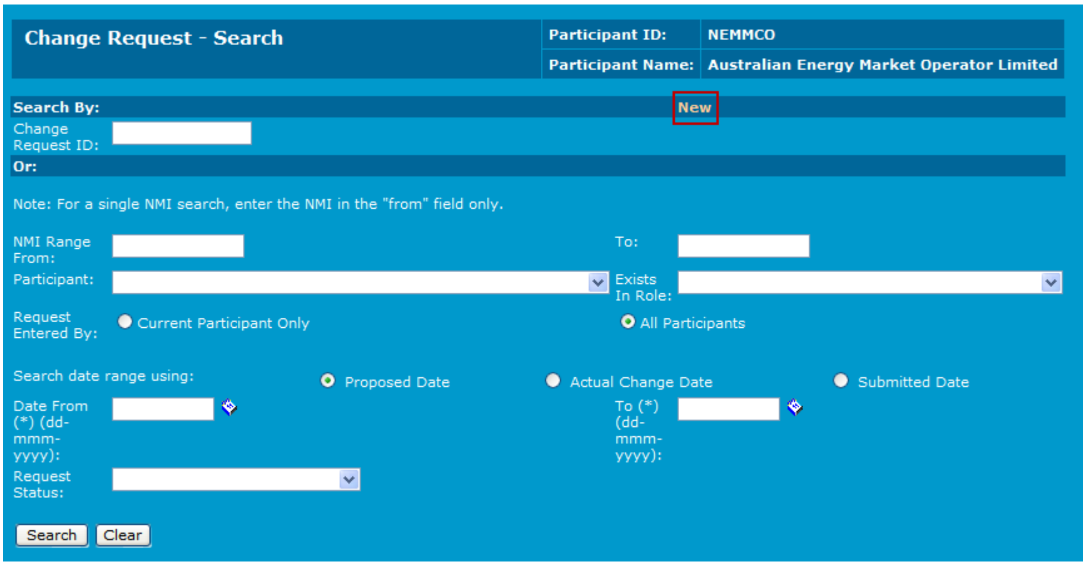
NMI register records contain data that is stored against meter register identifiers for a given Metering installation associated with a NMI. These records contain information such as, the register ID, network tariff code and a code representing the unit of measure. Each Metering installation can have multiple registers.

To create a NMI register:

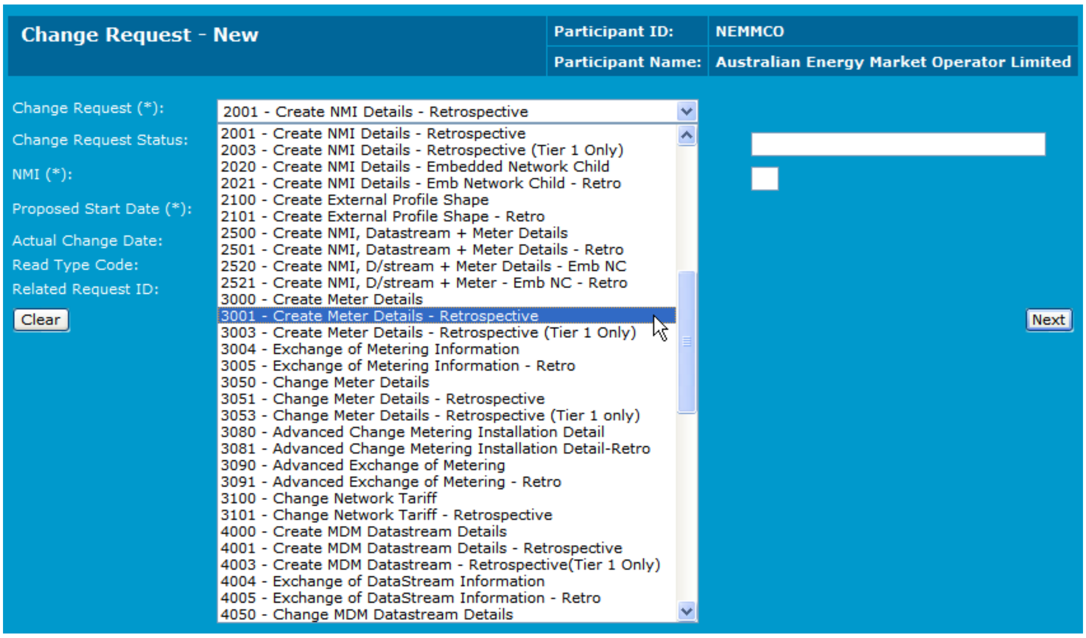
1. On the main menu, click Transactions and then click Change Requests.



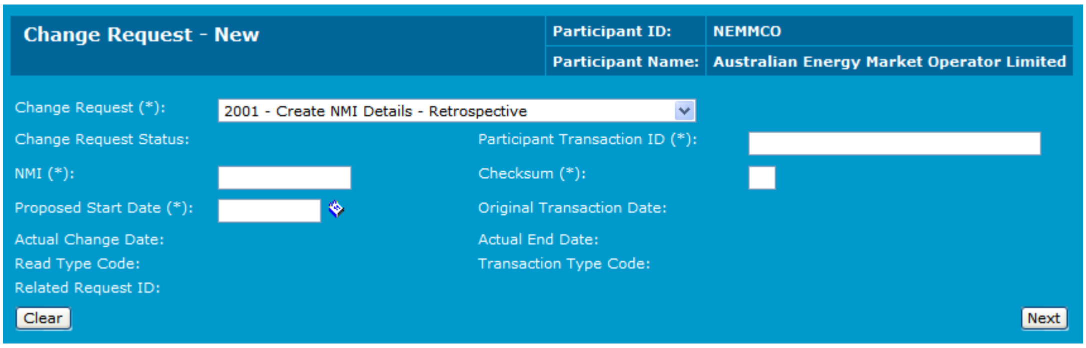
2. The Change Request - Search interface displays, click New.



3. The Change Request - New interface displays. Click the Change Request drop-down arrow to select a change reason code for example, Create Meter Details (3001 or similar) or Change Meter Details (3051 or similar). The change reason code selected determines the type of transaction to create. To learn more about change reason codes,Administration on page 213.



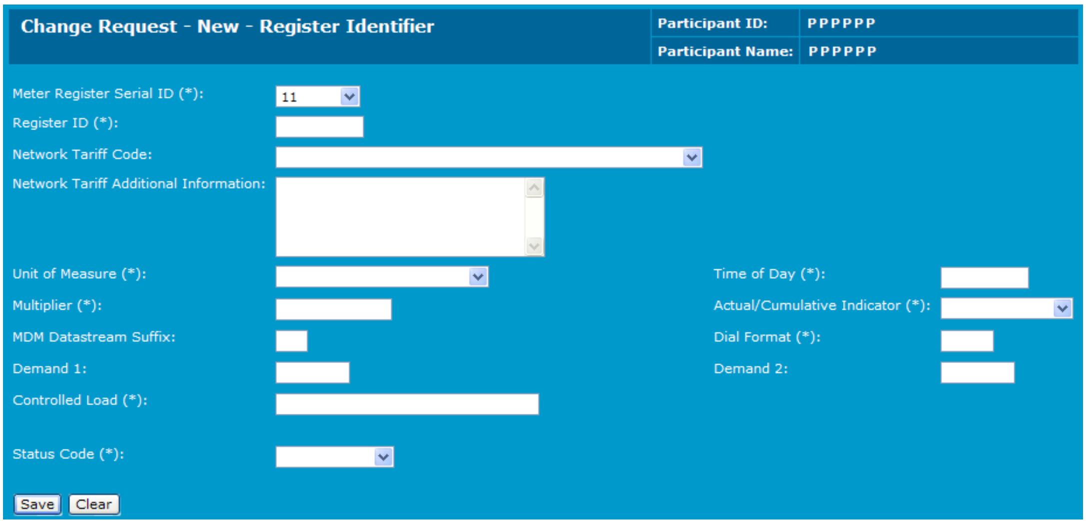
4. The fields for the selected change reason code display. Complete the fields and click Next. For help understanding the fields, see NMI Metering Installation fields on page 67.



5. The Change Request - Main interface displays. Scroll to the NMI RegisterIdentifier - List at bottom of the interface and click New.

   Note: if there are no serial numbers in the list, then there are currently no Metering installations created for this NMI. If the RegisterIdentifier - List heading is not displayed, you cannot create or modify Metering installations using this change reason code.

6. The Change Request - New - Register Identifier interface displays. Complete each of the required fields, and any optional fields and then click Save. For help understanding the fields, see NMI register fields on the next page.



7. Click OK to the confirmation message.

8. The NMI register record is summarised in the NMI Register Identifier- List. Do one of the following:

   - To make changes to the details before submitting, click Edit. If you select to edit an existing Metering installation, the interface is blank, except for the Serial ID even though each field has an existing value. Only complete the field(s) that you want to change. When you click Save, review and confirm the changes.

   - To create a new Metering installation record against the NMI, click New.

   - Click Submit to create the new change request.

Table 6 NMI register fields

Field	Description
Meter Register Serial ID*	The meter serial number is an alphanumeric identifier that uniquely identifies a meter for a given NMI (i.e. it must be unique for this NMI). In this table, it identifies the Metering installation associated with the NMI. The meter serial number must exist or have been created on the change request that is creating this register Id.
Register ID	The register ID uniquely identifies each register associated with the Metering installation. Each register is a unique data source that is obtained from the meter. A single meter may provide multiple data sources.
Network Tariff Code	The Network Tariff Code is a code that represents the network tariff that is applied by the LNSP for consumption measured by this register. LNSPs supply the network tariff codes. Each LNSP is required to publish a definition of what each code represents. This can normally be found on the LNSP's own web site.
Network Tariff Code Additional Information	Free text field for any other information relating to the network tariff code.
Unit of Measure	Code to identify the UOM for data held in this register. Examples: KWH, WH, KVARH, KVA, KW, VAR, VARH, V, A.
Time of Day	Industry developed codes to identify the time validity of register contents. For Interval meters, use code "INTERVAL". A possible group of codes might be: TOTAL, PEAK, SHOULDER, OFFPEAK, CONTROLLED, DEMAND, WEEKEND, PUBHOL
Multiplier	Multiplier required to take a register value and turn it into a value representing billable energy.
Dial Format	Describes the register display format .First number is the number of digits to the left of the decimal place, and the second number is the number of digits to the right of the decimal place

Field	Description
MDM Datastream Suffix	A code allowing this register to be associated with a Datastream suffix (i.e. all registers with the same suffix contribute to the same Datastream). Originally, this field had to contain a suffix that existed on the CATS_ NMI_Data_Stream table. That validation is no longer required. This allows for both energy and non-energy suffixes to be defined
Controlled Load	CIndicates whether the energy recorded by this register is created under a controlled load regime. This field has "No" if the register does not relate to a controlled load. If the register relates to a controlled load, it contains a text description of the controlled load regime
Status Code	Indicates whether the register is current (in use) or has been removed. No information is deleted from MSATS so, if a Metering installation is replaced, the Metering installation itself and the registers associated with the Metering installation have their status code updated to reflect that they are no longer there. It is possible to see the date from when a register was removed. Valid values are: Ccurrent Rremoved
Actual/Cumulative indicator	Actual/Subtractive Indicator. Actual implies volume of energy actually metered between two dates. Cumulative indicates a meter reading for a specific date. A second meter reading is required to determine the consumption between those two read dates. Valid values are: Aactual Ccumulative

Field	Description
Demand1	This field contains the peak demand value for Summer for network tariff purposes. Units in kW or kVA. Only required for a small number of specialised network tariff codes.
Demand2	This field contains an additional demand value (not Summer period). Units in kW or kVA. Only required for a small number of specialised network tariff codes.

Objections

What are objections?

Participants can log objections against change request transactions using the MSATS web portal or the batch handlers. The right to object to a transaction is determined by the objection and jurisdictional rules. The objection rules define, for each type of change request, which participant Roles can object using which objection codes. The jurisdictional rules determine the length of the objection logging and clearing periods.

Objections can be logged for both Prospective and retrospective change reason codes. When a participant has the right to object in a current Role, any participant acting in that Role for the period covered by the change request (such as, the Proposed Date or Actual Change Date) may be able to object. If the change request has a proposed date and end date, both of which are in the past (such as, it is updating active historic data only), the participant that is now the current Role for that period may be a different participant.

This means that more than one participant may be acting in the current Role for any change request. In this case, MSATS allows multiple participants to have a Role status of current against a NMI. The following table provides an example of a current Role relationship for NMI 6001000100.

Participant ID	NMI	Role	Start date	End date	Active flag
FRMP1	6001000100	FRMP	1/7/2000	19/10/2008	A
FRMP2	6001000100	FRMP	20/10/2008	31/12/9999	A
LNSPLNSP	6001000100	LNSP	1/7/2000	31/12/9999	A
LRLRLR	6001000100	LR	1/7/2000	31/12/9999	A
MDPMDP	6001000100	MDP	1/7/2000	31/12/9999	A

The NMI 6001000100 currently has two active FRMPs assigned to it, FRMP1 and FRMP2.

- Only FRMP1 has the ability to object to any retrospective change requests that have a Proposed Date or Actual Change Date of 1st July 2000 and End Date of 19th October 2008.
- Only FRMP2 has the ability to object to any Retrospective change requests that have an Actual Change Date of 20th October 2008 and an End Date up to and including the present day or no End Date, in which case the change is assumed to apply into the future (the high date, which is 31/12/9999).
- Only FRMP2 has the ability to object to any Prospective change requests.
- Both FRMP1 and FRMP2 can object if the Proposed Date or Actual Change Date is before 20th October 2008 and the End Date is after 19th October 2008 or there was no End Date because both are current FRMPs for the period covered by the proposed change.

Objections can only be logged within the valid objection-logging period for each change request.

Objection logging prerequisites are:

- The participant must know, or be able to locate the request ID for the relevant change request.
- The objection must be in a status of requested or objected.
- The objection period for the change request must still be open and current (such as, not closed).
- The participant must be acting in a Role that allows for this type of objection for this change reason code.

For a NOACC objection, the change request may have moved to PEND status. This is the only objection code with this functionality. In addition, the objection-logging period may have passed but the NOACC code does not recognise this period. A NOACC code can only be submitted by an MDP.

Each objection submitted against a change request must meet certain criteria:

- Identify the request ID to which it relates.
- Identify the participant making the objection.
- Identify the Role in which the participant is acting for the objection.
- Provide an objection code.

Once the objection is logged, it passes through validation to ensure that it complies with all rules. The objection is not fully processed until all validations are passed. For each objection logged, MSATS validates:

- The objection is not a duplicate.
- The change request to which it relates is identified.

- The change request has a status of requested or objected.

- The Role in which this participant is acting is identified.

- The participant is an active CATS participant.

- An active objection code is supplied.

The objection code is valid for the Role in which the participant is acting according to the objection rules–see MSATS Procedures : CATS Procedure Principles and Obligations.

The objection is received within the cut-off time allowed for this jurisdiction and change reason code type according to the jurisdictional rules–see MSATS Procedures : CATS Procedure Principles and Obligations.

- The participant objecting is acting in a new or current Role that is entitled to object for the Jurisdiction, change reason code and NMI classification of the change request.

Once the objection has been received, the system notifies the initiator of the objection acceptance or rejection. This notification (objection response file) is sent to the participant's outbox in the form of a .ZIP file.

- A party can lodge an objection, even if there is already a valid objection logged against this change request from another party.

- If a change request has been in a status of Objected for the objection-cleaning period, the status of the request changes to Cancelled.

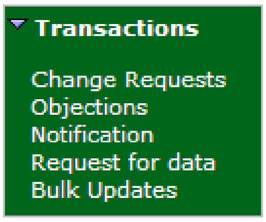
- If a change request has its status changed to Cancelled, its history is retained.

- If a change request has its status changed to Cancelled, all parties that received the original notification (including the initiator) are notified of the change of status.

Searching and viewing objections

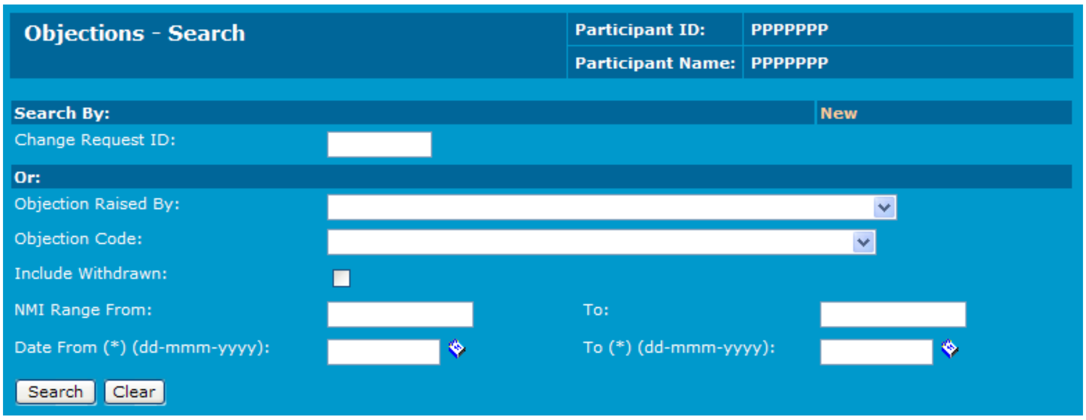
To search and view objections:

1. On the main menu, click Transactions and then click Objections.



2. The Objections - Search interface displays. From this interface you can search, view, edited or create objections. To search for an objection, do one of the following:

   - Enter the Change Request ID in the Search By section and click Search.
   - Enter the change request details in the fields in the Or section and click Search. The Date From and To fields are required.

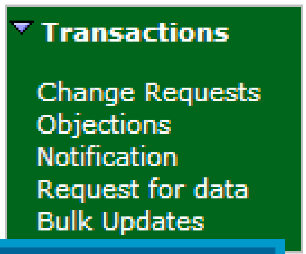


Creating a new objection

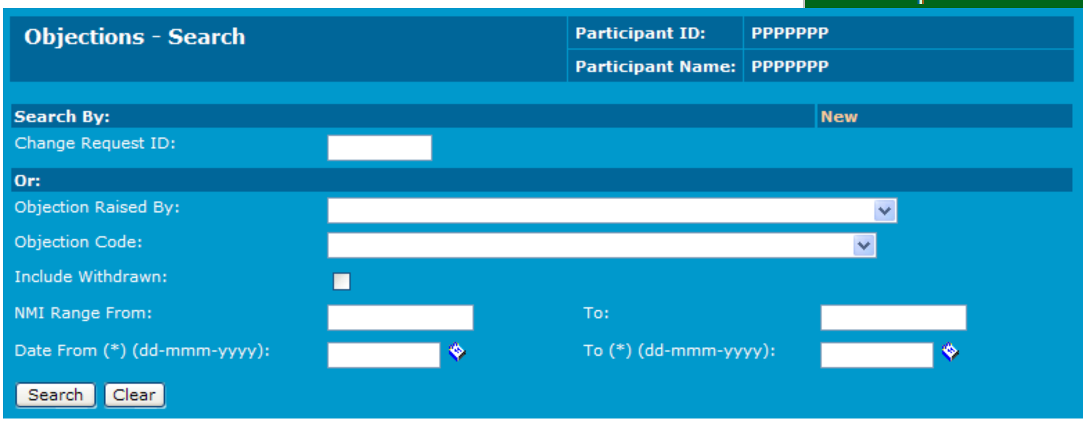
The Objections - Search interface provides access to the Change Request interface showing details of a change request related to a particular objection. Participants can also view error messages related to objections that were loaded into the system using the batch process and for failed validations.

To create a new objection:

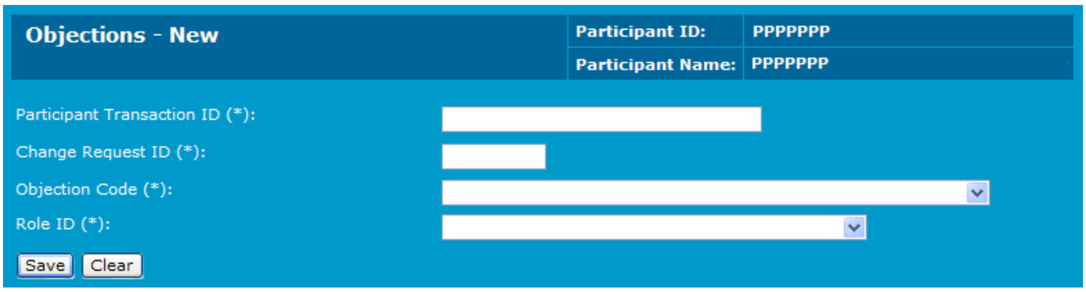
1. On the main menu, click Transactions and then click Objections.



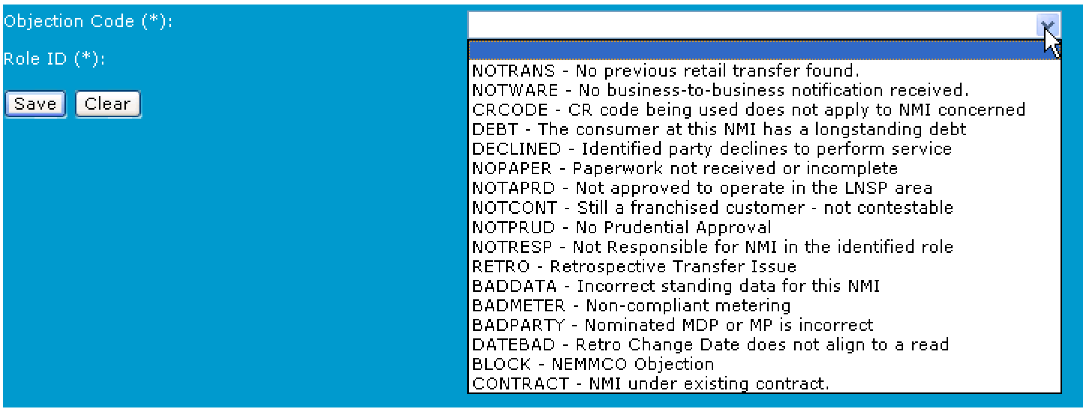
2. The Objections - Search interface displays, click New.



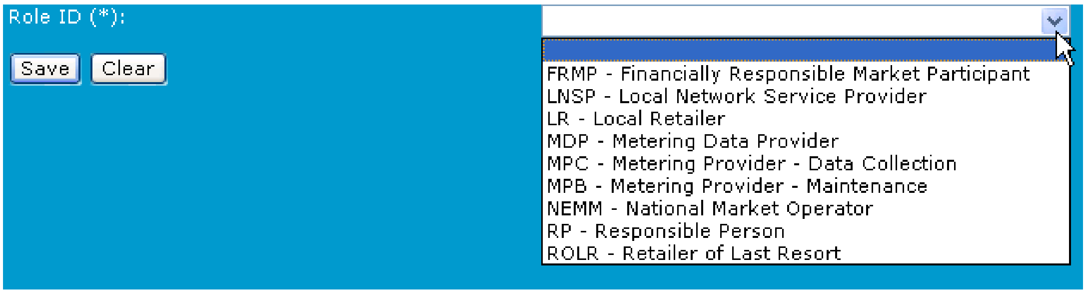
The Objections - New interface displays, for help understanding the fields, see Objection fields on page 82. Type the Participant Transaction ID and Change Request ID.



3. Click the Objection Code drop-down arrow and select the objection type from the list.



4. Click the **Role ID** drop-down arrow and select from the list. The Role ID selected must be equal to a Role currently held by the participant, and it must be a valid Role for the objection type.



5. Click **Save**. If the objection passes validation, the change request is updated to include the:
   - Objection code.
   - Role ID of the participant making the objection.
   - Date and time the objection was logged.
   - Objected status.

   If the objection fails validation, an error message explaining the reason for the failure displays. Edit the objection to change the incorrect details.

The objection is confirmed and a notification is sent to each participant associated with the NMI who are authorised to receive notification of objections. This can be viewed using the participants outbox and is an XML format in a .ZIP file.

Table 7 Objection fields

Field	Description
Participant Transaction ID	Participant transaction identifier provided by the participant for each transaction they submit
Change Request ID	The unique identifier of the change request to which this objection relates
Objection Code	The objection code that identifies the reason for the objection. To learn more about objection codes, Administration on page 213.
Role ID	Role permitted to object with the given objection code. MSATS checks whether your Role status is current or new. (If it is new, then you must be nominated in this Role on the change request you are objecting to.)

Withdrawing an objection

Participants can withdraw objections they have logged against change requests. An objection cannot be withdrawn if the:

- Objection ID provided is not valid.
- Participant requesting the objection withdrawal is not the initiator of the objection.
- Related change request is cancelled.

If the objection withdrawal is valid, the objection is cancelled. The change request the objection is raised against has its status updated to Requested or remains at Objected if other participants have raised objections they have not withdrawn. In the overnight processing, any change requests that have their status updated to Requested have the status updated to Pending, if the objection period has passed.

Depending on the notification rules, participants are informed of the withdrawal of the objection and of the status of the change request for which the objection has been withdrawn. All participants that receive a notification of Objected status can expect to receive a notification when an objection is withdrawn.

When a change request's status is changed from OBJ (Objected) to REQ (Requested) after the withdrawal of an objection (which is what happens if there are no other outstanding objections), then two notifications are sent. One is triggered by the withdrawal of the objection and includes the objection details. Another is triggered by the standard action of a change request changing status to REQ; it does not have the objection details.

If the objection withdrawal is successful, the participant withdrawing the objection is notified of the success of their request. A web portal withdrawal receives immediate notification; while a batch handler withdrawal is acknowledged by an objection withdrawal transaction in the participant outbox.

Depending on the notification rules, the relevant parties are notified whenever an objection is withdrawn. The notification has a status of OBJ if there are still other active objections or REQ if all objections are cleared. In either case, the notification includes details in the objections section.

The following example displays the objectionAction as Withdrawn:

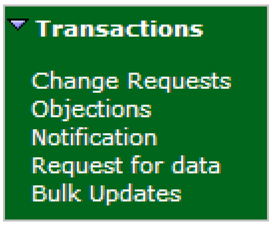

```
- <Objection>
    <Participant>PPPPPPP</Participant>
    <ObjectionID>76543210</ObjectionID>
    <ObjectionAction>Withdrawn</ObjectionAction>
  - <ObjectionData>
      <InitiatingRequestID>4323</InitiatingRequestID>
      <Role>FRMP</Role>
      <ObjectionCode>NOTRESP</ObjectionCode>
    </ObjectionData>
    <ObjectionDate>2009-03-23</ObjectionDate>
  </Objection>
```

If an objection being withdrawn is not valid (such as, the objection record does not exist, the withdrawing participant was not the initiating party or the change request to which it relates has an invalid status), an error is recorded and the objection withdrawal transaction indicates that the withdrawal was rejected. A rejected web portal withdrawal receives immediate notification; while a batch withdrawal is acknowledged with an objection transaction in the participant outbox.

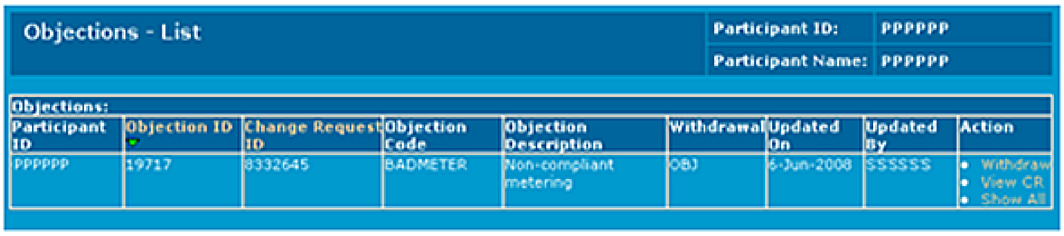
Table 8 Information captured against an objection withdrawal request

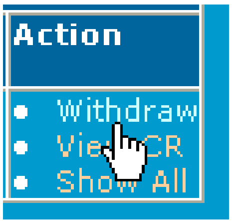
Field	Field code	Description
Change Request ID	REQUESTID	The unique identifier of the change request to which this objection relates.
Participant Transaction ID	PARTTRANSACTIONID	A participant transaction identifier provided by the participant for each transaction they submit.
Participant ID	PARTICIPANTID	The participant ID of the participant initiating the withdrawal.
Objection Code	OBJECTIONCODE	The objection code that identifies the previously entered objection that the participant now wants to withdraw.
Role ID	ROLEID	Role permitted to object with the given objection code

To withdraw an objection:



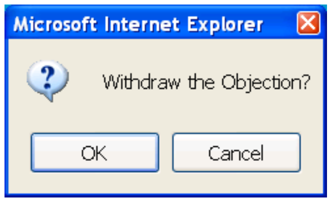
1. On the main menu, click Transactions and then click Objections.
2. The Objections - Search interface displays. To find the objection, follow the steps to view the Objections - List interface (Searching and viewing objections on page 79).
3. The Objections - List interface displays the list of objections and objection withdrawals. Click Withdraw in the Action column next to the objection ID.





4. A confirmation message displays, click OK.

5. The objection withdrawal is confirmed.



Notifications

What are notifications?

Notifications occur when the status of a change request changes or when an objection is lodged or withdrawn. A notification includes information about what is proposed to change or what has changed, in the case of a COM (complete) notification.

Notifications are sent to relevant parties throughout the different stages of the transaction process as determined by the notification rules. Recipients can view notifications from the Notifications submenu.

The process involves:

> **Notifications are dependent on the participant's relationship to the change request transaction.**

- Determining who is notified.
- Determining what is in the notification.
- Creating the notification ready for distribution.
- Keeping an audit trail of notifications.

Notifications serve an important additional purpose for the nominated new parties of an existing NMI who do not currently act in that Role. When the notification for a status COM (such as, completion) is sent to the new parties nominated on a change request, it includes the NMI master data required by the new participant. It includes all active records, which could be active historic and/or current records, depending on the period covered by the change request. The reason for supplying this information is to make it easy for parties acquiring a new relationship to update their own systems with the available NMI information.

New parties nominated on a change request in certain Roles (FRMP, LNSP, LR, MDP, MBP and RP) receive these special notifications for the COM status. If the old and new parties are the same for a Role, then the special notification for the COM status is not sent. (Some change requests require the specification of the party for a Role, even though that Role is not being changed.)

Notification rules

The Notification Rules determines when notifications are sent. The rules are based on the following fields: Transaction type, change request status, change reason, the affected Role type and its status. For help viewing the Notification Rules list, Administration on page 213.

Sent notifications are viewed on the **Notifications - Search** interface. The notification process is initiated when a change request status changes, or when an objection is received or withdrawn.

Retrospective notifications

Notifications can also be sent to participants in a “Retrospective” manner. Therefore, if a retrospective change reason code is selected, the participants who are associated to this change request being created (such as, they held a current Role against the NMI during the retrospective period assigned in the change request) receive notifications.

For example, assuming the following active participants hold a relationship with NMI 6001000100.

Participant ID	NMI	Role	Start date	End date	Active flag
FRMP1	6001000100	FRMP	1/7/2000	19/10/2008	A
FRMP2	6001000100	FRMP	20/10/2008	31/12/9999	A
LNSPLNSP	6001000100	LNSP	1/7/2000	31/12/9999	A
LRLRLR	6001000100	LR	1/7/2000	31/12/9999	A
MDPMDP	6001000100	MDP	1/7/2000	31/12/9999	A

If a retrospective change reason code is created with a “Proposed Date” of 12 March 2008, the participant FRMP1 receives the notification since it is the active FRMP at the time of the proposed change. However, if the “Proposed Date” is the 5th November 2008, then FRMP2 receives the FRMP notification for the current FRMP.

This is achieved by allowing multiple participants to have a Role status of “current” against a particular NMI. When a notification or objection rule is defined for ‘current’ on a Retrospective change reason code, it means any current participants during the period of the change request. This allows participants having no current relationship with a NMI, but who did at the time of the change, to be notified and have the right to object. Equally, it excludes participants that have a current relationship with the NMI but had none at the time of the retrospective change.

An active history record is maintained for all of the time since the NMI began its existence. This is necessary because many Settlement operations in MSATS, for example revisions, occur a long time after the period being settled.

The notification rule only applies if the retrospective participant is still an “active” participant in MSATS. If the retrospective participant has become “inactive”, then they do not have access to the MSATS system, and cannot receive the notification relating to the change request.

Searching and viewing notifications

Notifications are placed in the participant outbox for all types of change requests regardless of whether they were created using the MSATS web portal or using the batch handlers. Notifications are viewed using the MSATS web portal or they can be viewed by downloading the .XML files. Each notification is a separate .XML file in a separate .ZIP file.

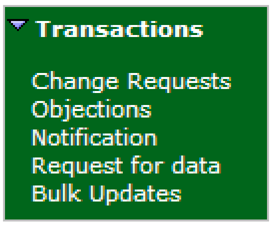
The file name has the following format:

```
catsm_<Participantid>batch_<receiptid>.zip
```

Because it is sent to the <ParticipantID>batch user ID, only someone logged on to the MSATS web portal with the user ID or with an access right providing access to the participant outbox, can see the response message. That is, the originator of the change request may not necessarily see it. Participants can only search for notifications sent to them. A search is completed using the change request ID field by itself or with any other field.

To search for notifications:

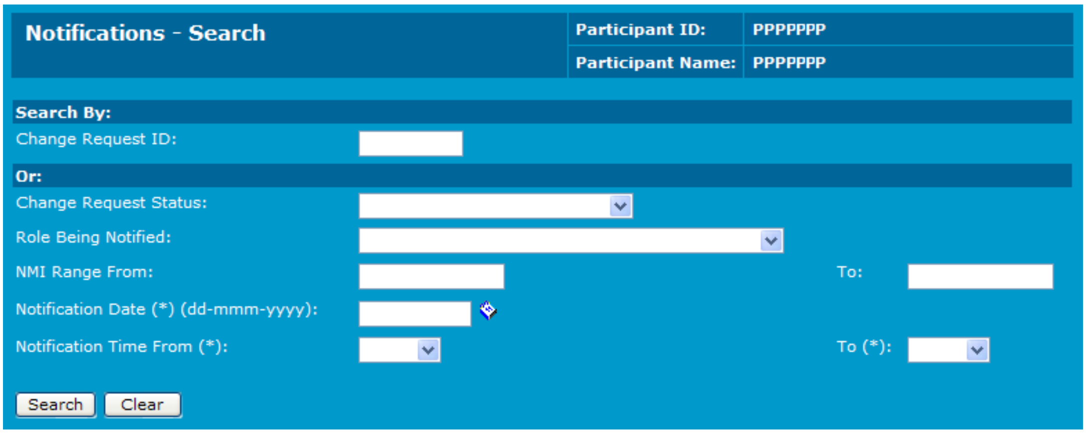
1. On the main menu, click Transactions and then click Notification.



2. The Notifications - Search interface displays, for help understanding the fields, Notification Search fields on page 90. To search for a notification, do one of the following:

- Enter the Change Request ID in the Search By section and click Search.
- Enter the change request details in the fields in the Or section and click Search. The Date From and To fields and the Notification Time From and To fields are required.

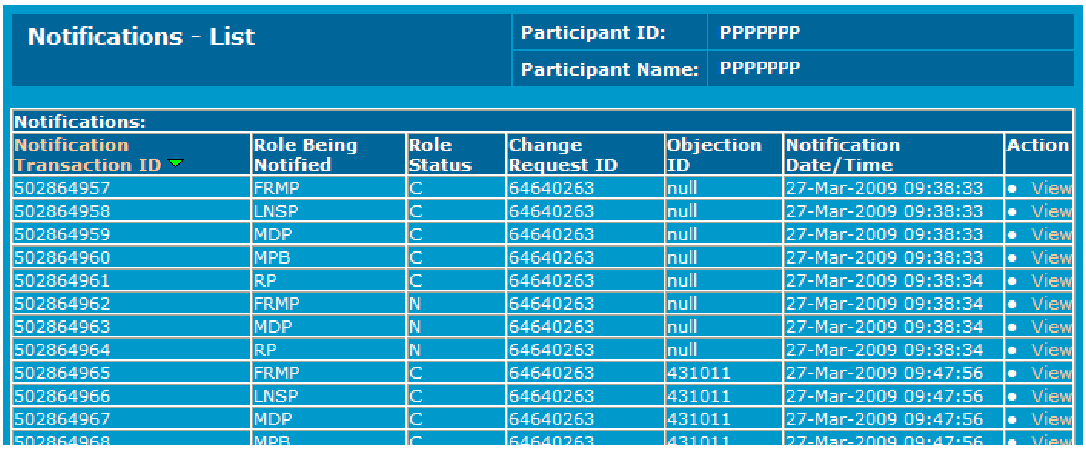
Note: the change request ID must be one submitted by or associated with the participant.



3. The Notification - List interface displays. To sort the results, click the Notification Transaction ID column heading. The direction of the arrow indicates whether the results are sorted in ascending or descending order.

   Note: a value in the Objection ID column other than null means the notification is associated with an objection or an objection withdrawal. The value displayed is the objection register.

4. To view the transaction details, click View in the Action column next to the Notification Transaction ID.


Notifications - List

Participant ID: PPPPPPP

Participant Name: PPPPPPP

Notifications:

Notification Transaction ID	Role Being Notified	Role Status	Change Request ID	Objection ID	Notification Date/Time	Action
502864957	FRMP	C	64640263	null	27-Mar-2009 09:38:33	View
502864958	LNSP	C	64640263	null	27-Mar-2009 09:38:33	View
502864959	MDP	C	64640263	null	27-Mar-2009 09:38:33	View
502864960	MPB	C	64640263	null	27-Mar-2009 09:38:33	View
502864961	RP	C	64640263	null	27-Mar-2009 09:38:34	View
502864962	FRMP	N	64640263	null	27-Mar-2009 09:38:34	View
502864963	MDP	N	64640263	null	27-Mar-2009 09:38:34	View
502864964	RP	N	64640263	null	27-Mar-2009 09:38:34	View
502864965	FRMP	C	64640263	431011	27-Mar-2009 09:47:56	View
502864966	LNSP	C	64640263	431011	27-Mar-2009 09:47:56	View
502864967	MDP	C	64640263	431011	27-Mar-2009 09:47:56	View
502864968	MPB	C	64640263	431011	27-Mar-2009 09:47:56	View

5. The read-only **Notifications - View** interface displays the details of the selected notification record.

   If the notification is caused by an objection or objection withdrawal, it cannot be seen in the **Notifications** menu, Notifications on page 85 to find this information.

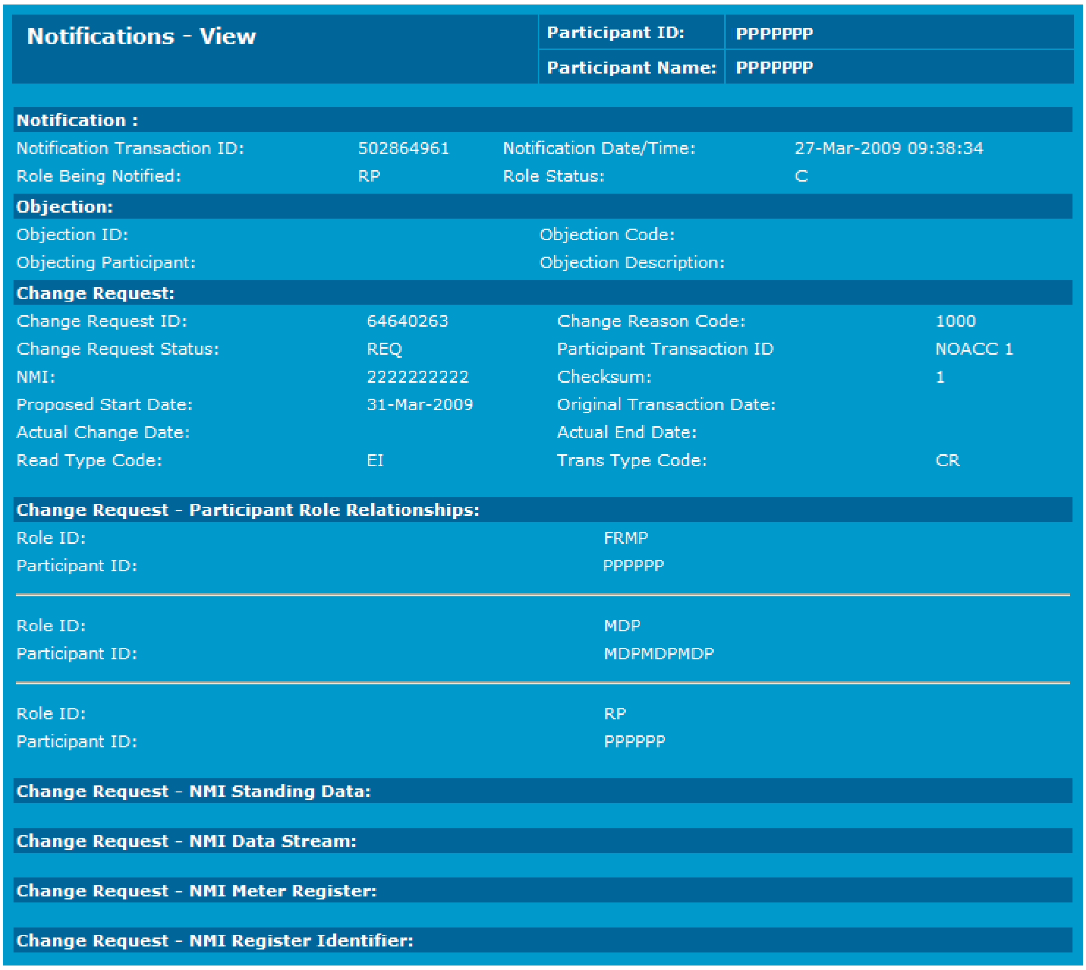


Table 9 Notification Search fields

Field	Description
Change Request ID	Unique register of each change request. This returns all notifications the participant has access to and are related to this change request ID
Change Request Status	Indicates the status of the change request and the transactions and notifications that may occur to a change request in a given status. Returns all notifications the participant has access to and that are related to a change request with this status.

Field	Description
Role being Notified	Role IDs identify the types of responsibility a participant may play within the market. Returns all notifications the participant has access to, where they have this Role on the notification.
NMI Range From / To	Returns all notifications the current participant has access to for change requests that relate to the NMIs found in this range.
Notification Date*	Returns all notifications the participant has access to where the create date is equal to this date. Date format = dd-mmm-yyyy.
Notification Time From / To*	Returns all notifications the participant has access to and whose create time lies between these values.

Request for data

What are requests for data?

When a change request is submitted, the existing data in MSATS is checked to ensure the transaction can proceed through the validation process. When some of the data required to complete the change request is not present it is requested from the appropriate participants. The nominated parties provide the requested data using a new change request. Participants can search, view detailed history and respond to data requests using the MSATS web portal. All participants can access the Request for Data menu, but the records they have access to are limited by their access rights.

The most common use of a data request transaction is a request to the MDP to provide the Actual Change Date for a change of Retailer type transaction. The date supplied is normally the date the meter is read or, in the case of a newly installed interval meter, the date it was NER compliant. Participants respond to a data request by submitting a normal change request; the change request type the MDP submits in response is a CR1500. The original change request cannot be completed until the requested data has been supplied.

Receiving participant data requests

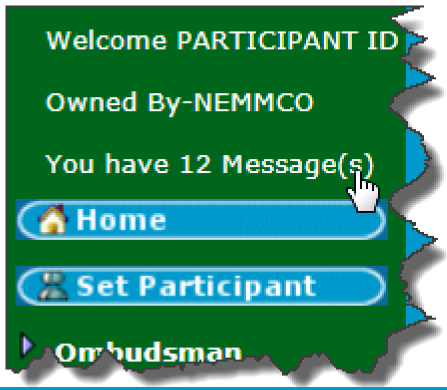
Participants receive data requests from file in their participant outbox. The Message Indicator on the main menu indicates the number of unanswered files a participant has in their participant outbox. The number includes all received files, not just data requests (such as, it also includes notification and other message types). The file is in aseXML format and compressed in a .ZIP file.

Viewing and downloading messages

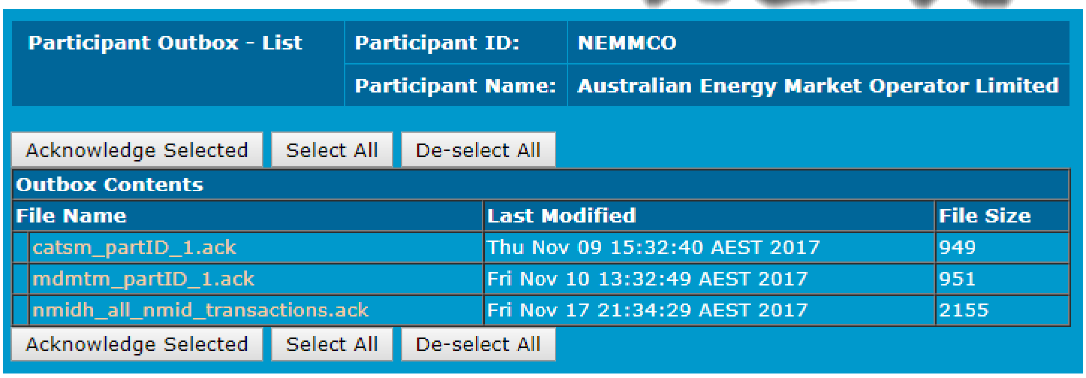
To view a request for data:

1. On the Main Menu, click the message link.

   Clicking this link is the same as clicking Participant Outbox from the Data Load Import menu.

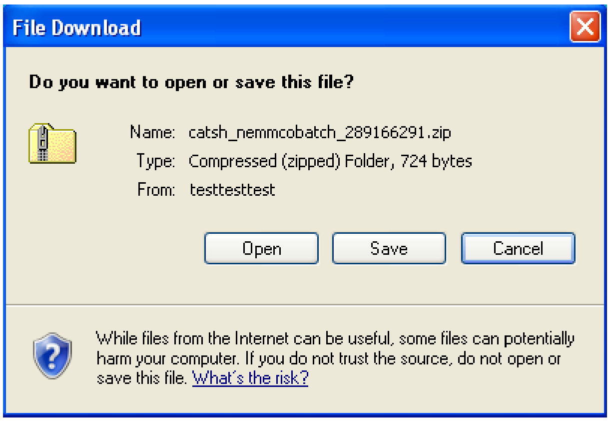


2. The Participant Outbox- List displays all available messages.



3. To view a message, click the File Name link.

4. On the File Download window, either open or save the file.

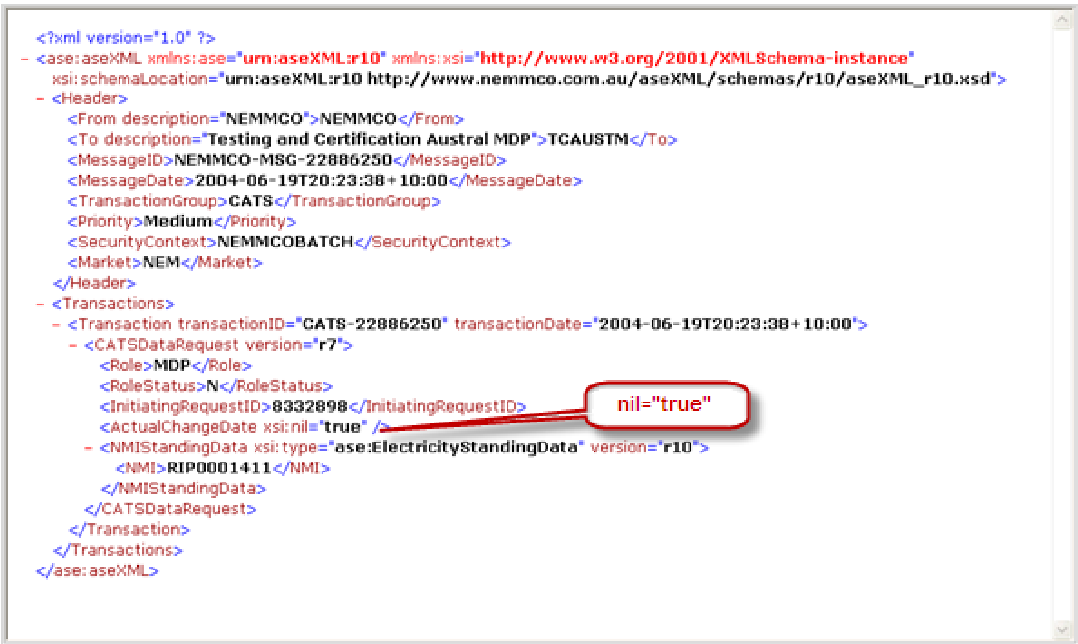


5. If the .ZIP file is opened, the next step is to open the aseXML file.

   The following example is of a message that relates to a request for data. The message requested the Actual Change Date for a retail transfer transaction.

   The message includes the change request ID of the transaction that initiated the request for data message (in this example, Request ID = 8332898).

   Under the Request ID, the Actual Change Date has a value of `NIL = "true"` assigned to it. This informs the participant that this data is required. Therefore, the participant needs to respond with a change request type 1500 providing the actual change date for the NMI in change request ID 8332898.

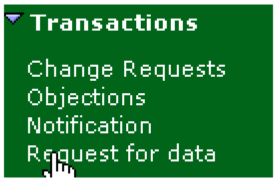


```
<?xml version="1.0" ?>
- <ase:aseXML xmlns:ase="urn:aseXML:r10" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="urn:aseXML:r10 http://www.nemmco.com.au/aseXML/schemas/r10/aseXML_r10.xsd">
 - <Header>
     <From description="NEMMCO">NEMMCO</From>
     <To description="Testing and Certification Austral MDP">TCAUSTM</To>
     <MessageID>NEMMCO-MSG-22886250</MessageID>
     <MessageDate>2004-06-19T20:23:38+10:00</MessageDate>
     <TransactionGroup>CATS</TransactionGroup>
     <Priority>Medium</Priority>
     <SecurityContext>NEMMCOBATCH</SecurityContext>
     <Market>NEM</Market>
   </Header>
 - <Transactions>
   - <Transaction transactionID="CATS-22886250" transactionDate="2004-06-19T20:23:38+10:00">
     - <CATSDataRequest version="r7">
         <Role>MDP</Role>
         <RoleStatus>N</RoleStatus>
         <InitiatingRequestID>8332898</InitiatingRequestID>
         <ActualChangeDate xsi:nil="true" />
       - <NMIStandingData xsi:type="ase:ElectricityStandingData" version="r10">
           <NMI>RIP0001411</NMI>
         </NMIStandingData>
       </CATSDataRequest>
     </Transaction>
   </Transactions>
</ase:aseXML>
```

Searching, viewing and responding to data requests

To respond to a data request:

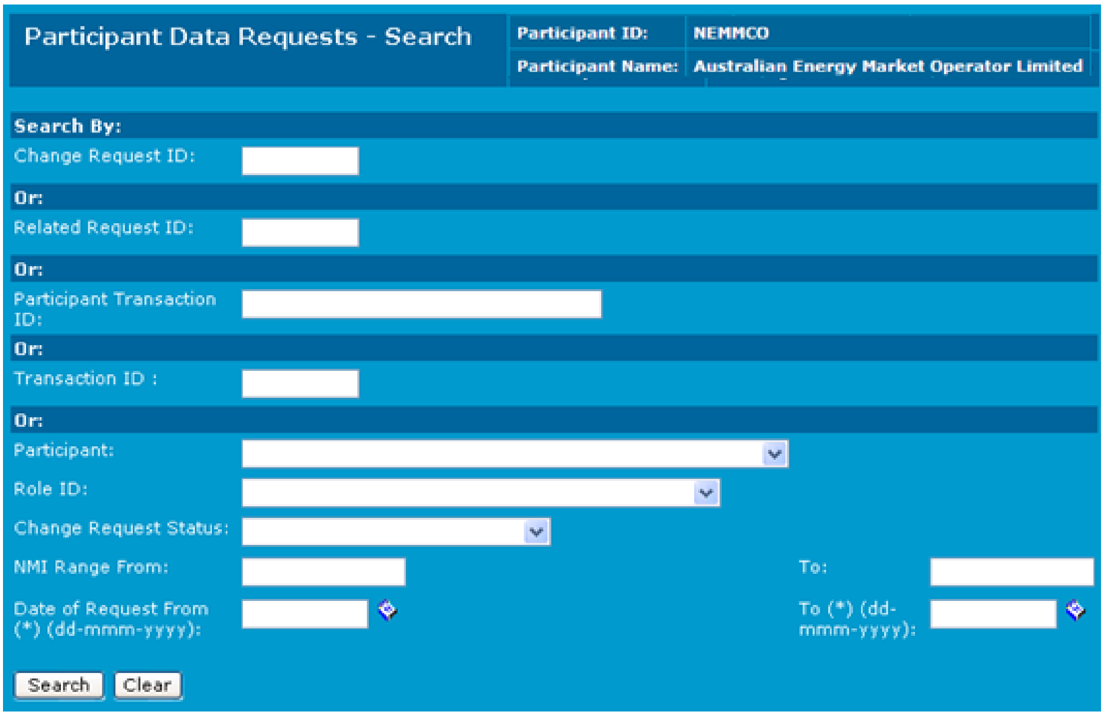
1. On the main menu, click Transactions and then click Request for Data.



2. The Participant Data Requests - Search interface displays where you can search for any data request relating to your participant ID. You can search by any of the following criteria:

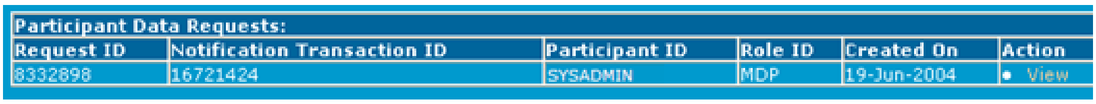
   - Change Request ID (the original change request ID initiating the data request).
   - Related Request ID.
   - Participant Transaction ID.
   - Transaction ID (relating to a message ID generated by MSATS).
   - Participant, Role ID, Change Request Status, NMI Range From and To, Date of Request From and To.

   Enter your criteria and click Search.



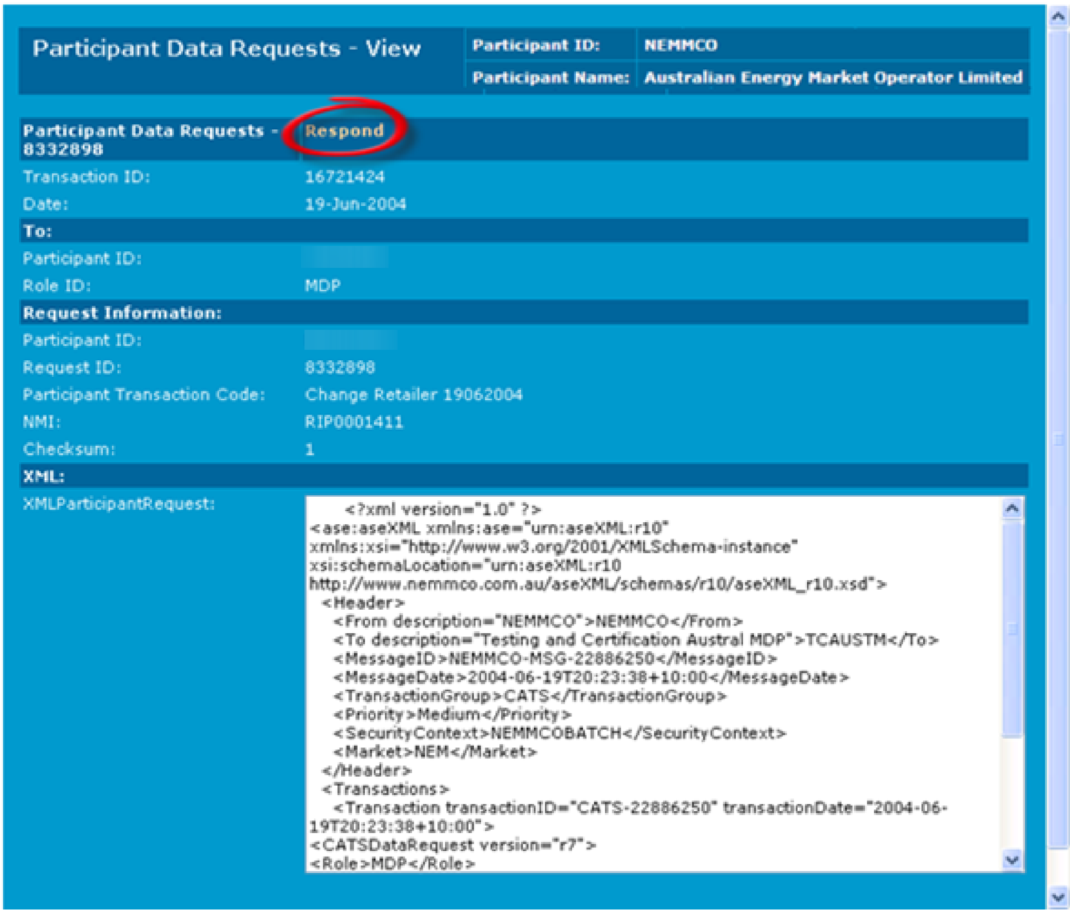
3. If the search is successful, the results display. Click View in the Action column next to the Request ID.

   If no results display, refine your search using more search criteria.



Participant Data Requests:					
Request ID	Notification Transaction ID	Participant ID	Role ID	Created On	Action
8332898	16721424	SYSADMIN	MDP	19-Jun-2004	• View

4. The Participant Data Requests - View interface displays. To respond to the request, click Respond.



5. The **Change Requests - New** interface displays where you create a new change request (Request for data on page 91).

   Note: alternatively, you can use the batch handlers with the appropriate change reason code to submit the new change request. For further information, Using the File Interface in Introduction to MSATS.

NMI Information

About NMI information

The NMI Information menu in MSATS contains all the details necessary to identify a specific Connection Point for Settlements, auditing, and discovery purposes. A NMI is used for identifying a physical connection point.

This NMI Information menu contains the following submenus:

- NMI Discovery used to search for a specific NMI when you have a limited amount of information.
- NMI Master used to list all NMIs you are related to.
- NMI Master Summary used to display NMI Standing Data about a NMI you are related to.
- Participant Relationships displays all participants related to a specific NMI.

The NMI Discovery searches are also available using the batch and API interfaces.

NMI discovery

About NMI discovery

From the NMI Discovery menu, you can:

- Discover a customer's NMI and checksum if it is not known such as, when the customer cannot provide it (search type 1).
- Discover sufficient Standing Data about the NMI to provide a customer with a quotation (search type 2).
- Identify the current or most recent previous Retailer for a NMI (search type 3).
- Find a Meter's Previous Read Date and Quality Flag.

To learn more about NMI Discovery, see Technical Guide to MSATS.

Search Type 1: NMI Discovery

All Participant Users with appropriate access rights can use the NMI Discovery search type 1 provided their Participant ID is registered in MSATS as acting in a Role allowed access to NMI Discovery.

The Participant User undertaking the search does not need to hold an existing participant Role Relationship against the NMI for Standing Data to be returned unless their Role is LNSP. LNSPs can only search their own NMIs.

NMI Discovery Search Key Rules may prevent access to certain search criteria, see Jurisdictional rules on page 100.

Search Type 2: Obtain Standing data

Search Type 2 is the process of entering a NMI and checksum to locate Standing Data about the NMI.

When the NMI and checksum are known, a Standing Data search returns the data to assist Retailers to provide a quote to an End-use Customer and find Meter Read data information for the customer switching process.

Detailed information is returned regarding the NMI, based on the NMI Discovery Field Access Rules. Information included is the Network Tariff Code, TNI code, DLF code and information about the Metering configuration. These rules are governed by the NMI's Jurisdiction.

Search Type 3: Obtain Role Data

Search Type 3 assists in the identification of the Current or most recent previous Retailer for a NMI and allows Retailers to provide a reason for their request.

NMI Discovery user rights access

Participant Administrators control access to NMI Discovery using the NMI Discovery entity in the Administration menu in the MSATS Web Portal.

Jurisdictional rules

The type of information, search criteria and number of results returned from the NMI Discovery or Standing Data search is governed by the NMI Discovery Search Key Rules and the NMI Discovery Field Access Rules, both of which are defined by each participating jurisdiction. If the number of corresponding records is greater than the number of records the user is permitted to view, only the number of items within the limit are returned. To reduce the number of records returned, refine the search criteria.

If no NMI Discovery Search Key Rules or NMI Discovery Field Access Rules are defined for a jurisdiction, then it means that the jurisdiction has not allowed NMI Discovery for any NMIs in that jurisdiction.

There is also a further jurisdictional rule that determines whether, in the event of multiple matches, the address of each matching NMI is also returned. The rule is set to “yes” for all jurisdictions allowing NMI Discovery.

Participant Users may have access to view the Jurisdictional rules, using the Administration menu. for help, see Administration on page 213.

Using search type 1 (NMI Discovery)

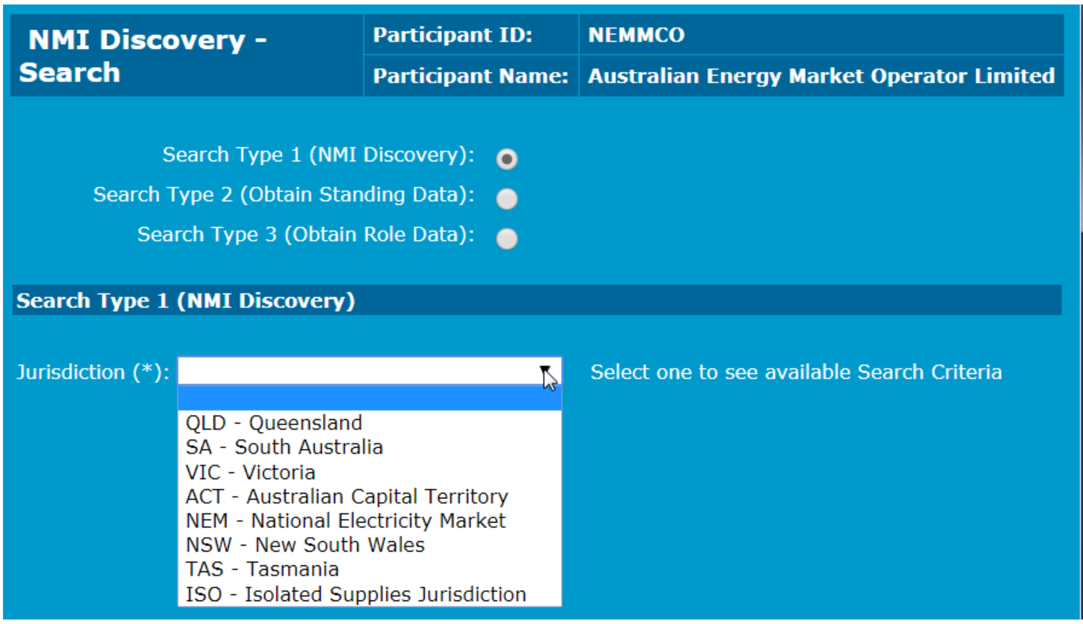
The search type 1 (NMI Discovery) is used to discover the following NMI information when a limited amount of NMI Standing Data is known:

- NMI identifier
- NMI checksum
- NMI Address Details
- LNSP

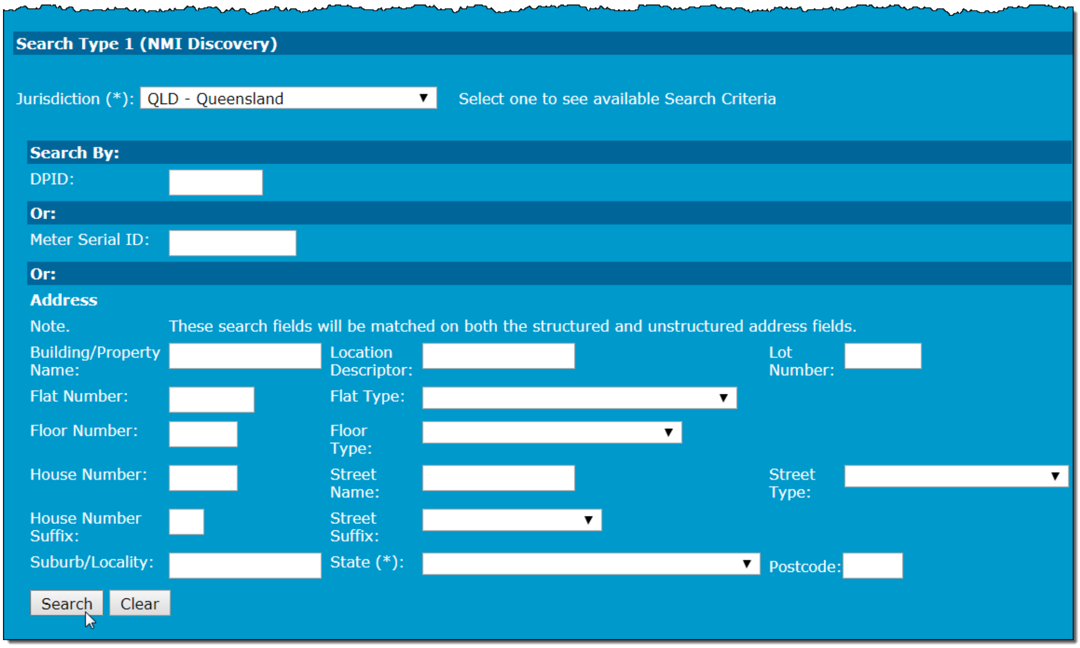
To use search type 1 (NMI Discovery):

1. On the main menu, click NMI information and then click NMI Discovery.

2. The NMI Discovery - Search interface displays, select the Search Type 1 (NMI Discovery).
3. In the Jurisdiction drop-down list, select a Jurisdiction. This is a required field.

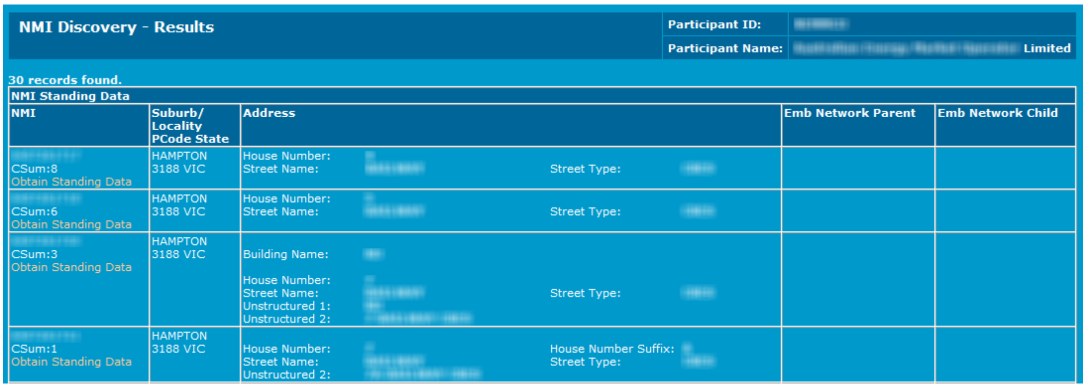


4. Complete the fields in the search criteria and click Search. You can search by any of the following criteria:
   - DPID
   - Meter Serial ID
   - Address (State, Suburb and/or Postcode fields are required for the address criteria)

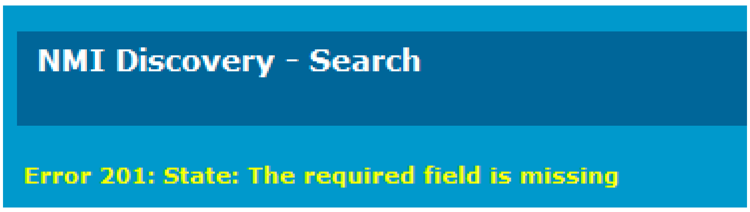


5. The NMI Discovery - Results display. For an explanation on the returned search fields, NMI Discovery results explained on page 114.

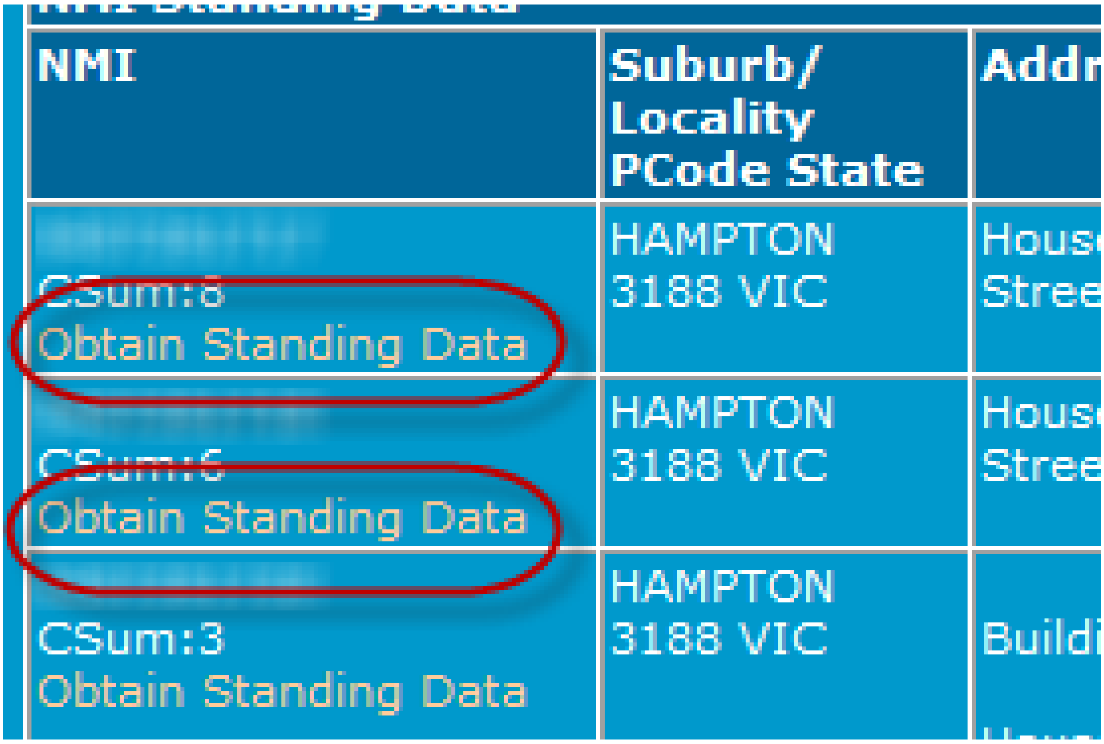
   You cannot modify NMI information from the results interface.



If the data does not pass validation, or if a required field is blank, an error message displays.



6. To access additional NMI information, click Obtain Standing Data in the NMI column.



7. The read-only Obtain Standing Data - Results interface displays. This information is the same as search type 2 - Obtain Standing Data.

8. For more NMI information, click one of the links in the Go To field:

   - View Datastreams (see page 108).
   - View participant relationships (see page 109).
   - View Meter Registers (see page 109).

If the result of a search exceeds the amount set for the Jurisdiction, the following message displays, “The number of records found exceeds the limit of xx set by the Jurisdiction. Please refine your search”.

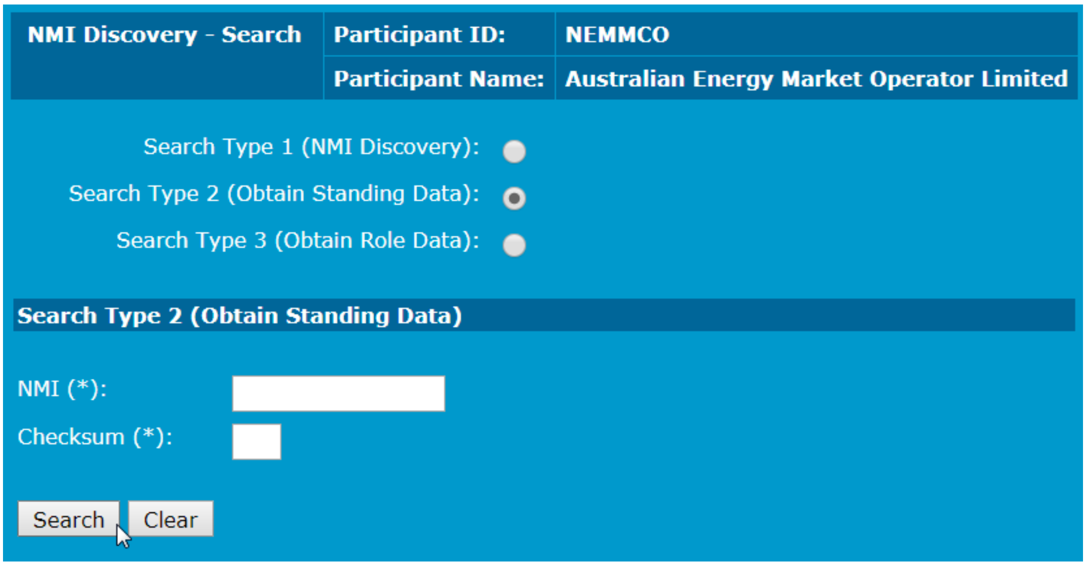
Using search type 2 (obtain standing data)

The search type 2 (obtain Standing Data) is used when the NMI and checksum are known.

The following steps provide an identical result to selecting the Obtain Standing Data link from search type 1 (NMI Discovery) results.

To use search type 2 (obtain Standing Data):

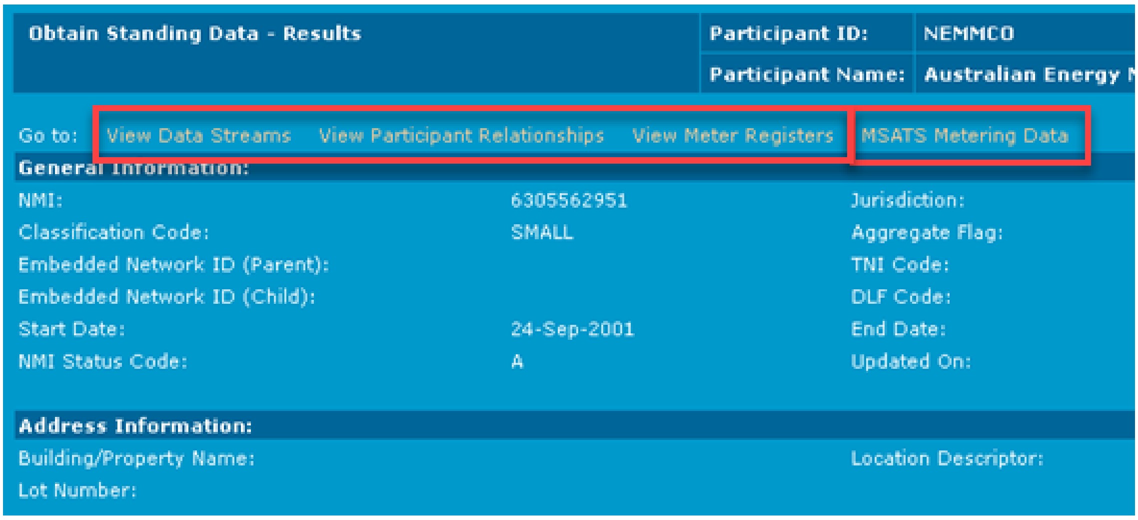
1. On the NMI Information menu, click NMI Discovery .
2. The NMI Discovery - Search displays, select Search Type 2 (Obtain Standing Data).
3. Enter both the NMI and the 1 digit Checksum and click Search.



4. The read-only Obtain Standing Data - Results displays.
5. If there is no matching NMI, a message displays "NMI Discovery. Invalid Jurisdiction Code".
6. For an explanation on the returned search fields, NMI Discovery results explained on page 114.
7. For more information, click one of the links in the Go To field:
   - View Datastreams (see page 108).
   - View participant relationships (see page 109).
   - View Meter Registers (see page 109).
   - View MSATS Metering Data (see page 111)

NMI information cannot be modified from the results interface.

Figure 5 Obtain standing data results



Using search type 3 (obtain role data)

NMI Discovery search type 3 - obtain Role data assists in the identification of the current or most recent previous Retailer for a NMI and allows Retailers to provide a reason for their request.

Some search rules are:

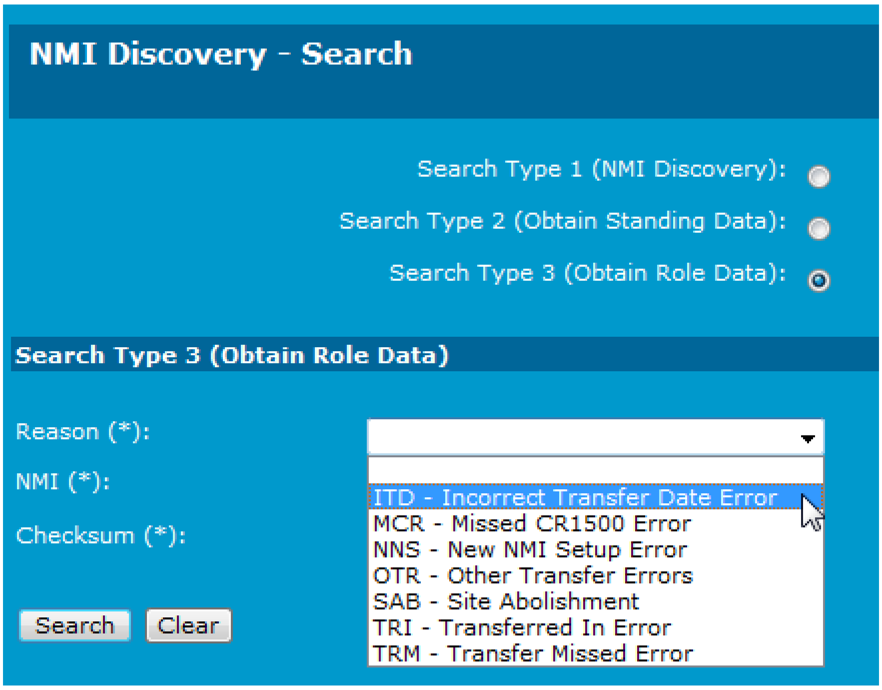
- Correct Retailer: The Retailer that should be listed as the FRMP for the NMI in MSATS. They are the end-use consumer's chosen Retailer.
- Current Retailer or current FRMP: The Retailer who is currently listed with an active Role of FRMP for a NMI in MSATS.
- Most recent previous Retailer: The Retailer who was the FRMP before the NMI was transferred to the party listed as the current FRMP in MSATS.

To use search type 3 (Obtain Role Data):

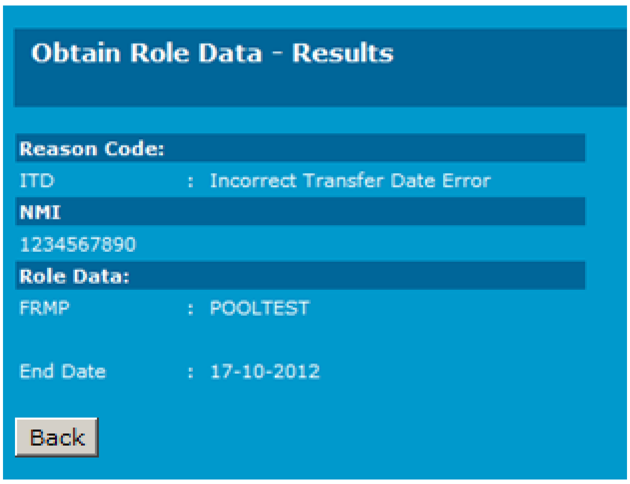
1. On the NMI Information menu, click the NMI Discovery submenu.

2. Select Search Type 3 (Obtain Role Data) and complete the mandatory Reason, NMI, and Checksum fields, and then click Search.

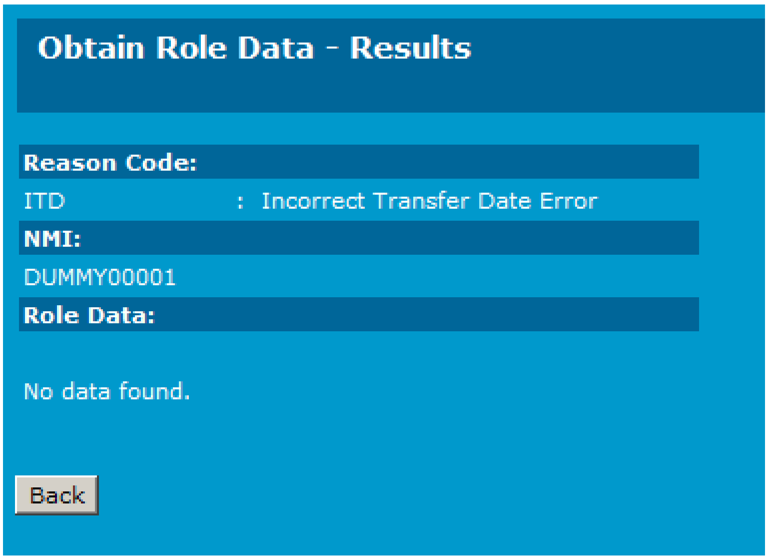
Figure 6 Search Type 3 reason codes



3. The results display similar to the ITD reason code example below.



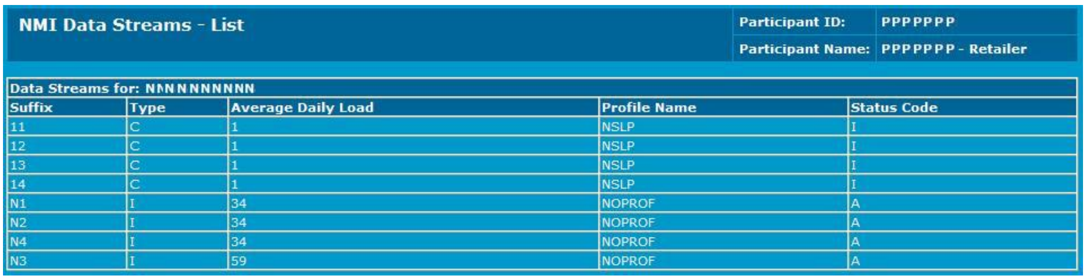
If the request returned no data, as in the case when a NMI was recently created and no previous FRMP exists, then a “No data found” message displays.



Viewing datastreams

To view Datastreams:

1. Follow the steps to obtain Standing Data, Using search type 1 (NMI Discovery) on page 100 or Using search type 2 (obtain standing data) on page 104.
2. On the Obtain Standing Data - Results interface, click View Datastreams.
3. The NMI Datastreams - List interface displays each Datastream associated with the connection point (NMI).



NMI Data Streams - List

Participant ID: PPPPPPP
Participant Name: PPPPPPP - Retailer

Data Streams for: NNNNNNNNNN

Suffix	Type	Average Daily Load	Profile Name	Status Code
11	C	1	NSLP	I
12	C	1	NSLP	I
13	C	1	NSLP	I
14	C	1	NSLP	I
N1	I	34	NOPROF	A
N2	I	34	NOPROF	A
N4	I	34	NOPROF	A
N3	I	59	NOPROF	A

Viewing participant relationships

To view participant relationships:

1. Follow the steps to obtain Standing Data, Using search type 1 (NMI Discovery) on page 100 or Using search type 2 (obtain standing data) on page 104.

2. On the Obtain Standing Data - Results interface, click View Participant Relationships.

3. The NMI Participant Relationships - List interface displays each participant relationship for the connection point (NMI).

NMI Participant Relationships - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Participant Relationships for: NCCCWLJNNN					
Role	**Participant ID**	**Start Date**	**End Date**	**Activity Status**	**Updated On**
FRMP	ENGYAUST	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
LNSP	ENERGYAP	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
LR	POOLNSW	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
MDP	TCAUSTM	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
MPB	TCAMP	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
MPC	TCAUSTM	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
ROLR	POOLNSW	25-Feb-2011	31-Dec-9999	A	31-Dec-9999
RP	ENERGYAP	25-Feb-2011	31-Dec-9999	A	31-Dec-9999

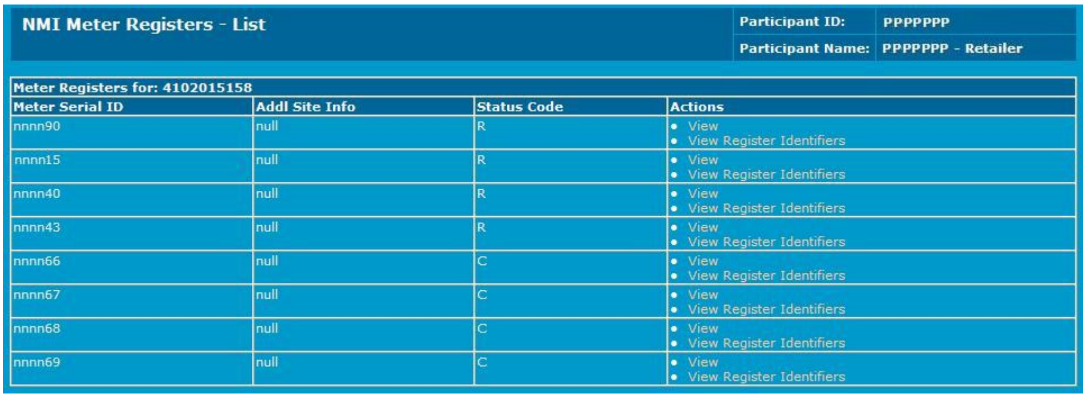
Viewing meter registers

To view meter registers:

1. Follow the steps to obtain Standing Data, Using search type 1 (NMI Discovery) on page 100 or Using search type 2 (obtain standing data) on page 104.

2. In Obtain Standing Data - Results, click View Meter Registers.

3. The NMI Meter Registers - List interface displays a list of all meters and related information for the connection point (NMI). Click View in the Actions column to see further information.



NMI Meter Registers - List

Participant ID:	PPPPPPP
Participant Name:	PPPPPPP - Retailer

Meter Registers for: 4102015158

Meter Serial ID	Addl Site Info	Status Code	Actions
nnnn90	null	R	• View • View Register Identifiers
nnnn15	null	R	• View • View Register Identifiers
nnnn40	null	R	• View • View Register Identifiers
nnnn43	null	R	• View • View Register Identifiers
nnnn66	null	C	• View • View Register Identifiers
nnnn67	null	C	• View • View Register Identifiers
nnnn68	null	C	• View • View Register Identifiers
nnnn69	null	C	• View • View Register Identifiers

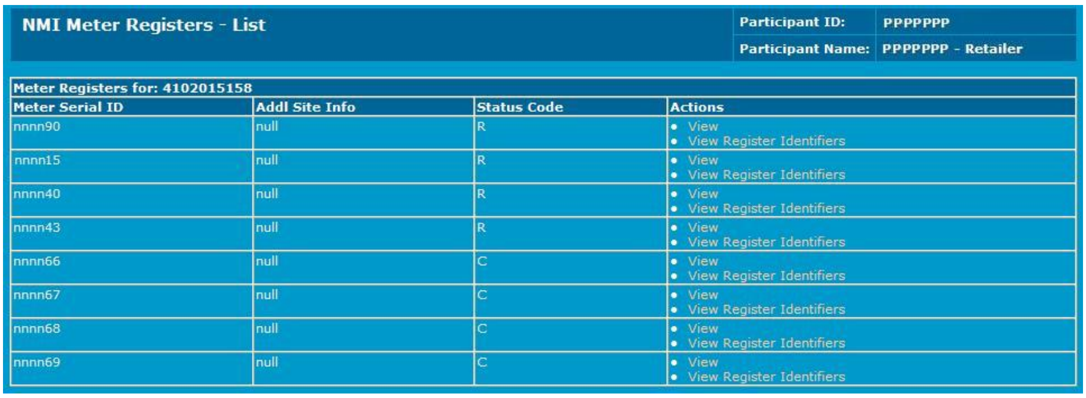
4. The NMI Meter Register - View interface displays.

NMI Meter Register - View

Participant ID:	PPPPPPPP
Participant Name:	PPPPPPPP - Retailer

NMI:	NMI NMI NMI	Meter ID:	ID ID ID
Additional Site Information:		Meter Location:	
Meter Installation Type Code:	BASIC	Meter Point:	
Meter Hazard:		Meter Route:	
Meter Use:		Meter Constant:	
Meter Model:		Meter Manufacturer:	
Meter Read Type:		Meter Program:	
Next Scheduled Read Date:	5-Nov-2007		
Transformer Location:		Transformer Type:	
Transformer Ratio:			
Last Test Date:		Next Test Date:	
Test Result Accuracy:		Test Performed By:	
Test Result Notes:			
Measurement Type:		Remote Phone Number:	
Communication Equipment Type:		Communication Protocol:	
Data Conversion:		Data Validations:	
Estimation Instructions:		Asset Management Plan:	
Test & Calibration Program:		Calibration Tables:	
User Access Rights:		Passwords:	
Start Date:		End Date:	
Status Code:	C	Updated On:	
Created On:			

5. Return to the NMI Meter Registers - List interface and then click View Register Identifiers in the Actions column.



NMI Meter Registers - List

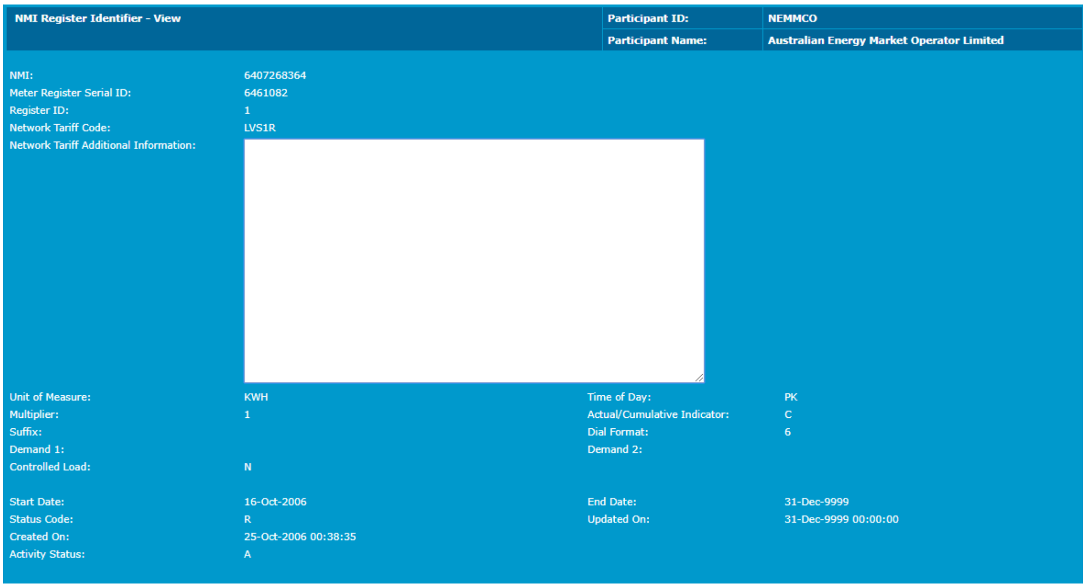
Participant ID:	PPPPPPP
Participant Name:	PPPPPPP - Retailer

Meter Registers for: 4102015158

Meter Serial ID	Addl Site Info	Status Code	Actions
nnnn90	null	R	• View • View Register Identifiers
nnnn15	null	R	• View • View Register Identifiers
nnnn40	null	R	• View • View Register Identifiers
nnnn43	null	R	• View • View Register Identifiers
nnnn66	null	C	• View • View Register Identifiers
nnnn67	null	C	• View • View Register Identifiers
nnnn68	null	C	• View • View Register Identifiers
nnnn69	null	C	• View • View Register Identifiers

6. The NMI Register Identifiers - List interface displays, click View in the Actions column to see individual register information.

7. The NMI Register Identifier - View interface displays individual register information.



Viewing Metering Data

For details about the Previous Read Date (PRD) and Quality Flag process, see Technical Guide to MSATS.

To view MSATS Metering Data:

1. Follow the steps for Using search type 2 (obtain standing data) on page 104.

You can also obtain this information using the getNMIDetail API.

2. In Obtain Standing Data - Results, click MSATS Metering Data (Obtain standing data results on page 106).

3. The interface displays the following details:

   a. NMI

   b. Previous Read Dates

   c. Associated Quality Flags

MSATS Metering Data	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

NMI: 6305562951	
Previous Read Date	**Read Quality**
14-Aug-2019	A
10-Nov-2019	A
4-Jan-2020	A
14-Feb-2020	A

If previous reads are unavailable, one of the following messages display with the reason:

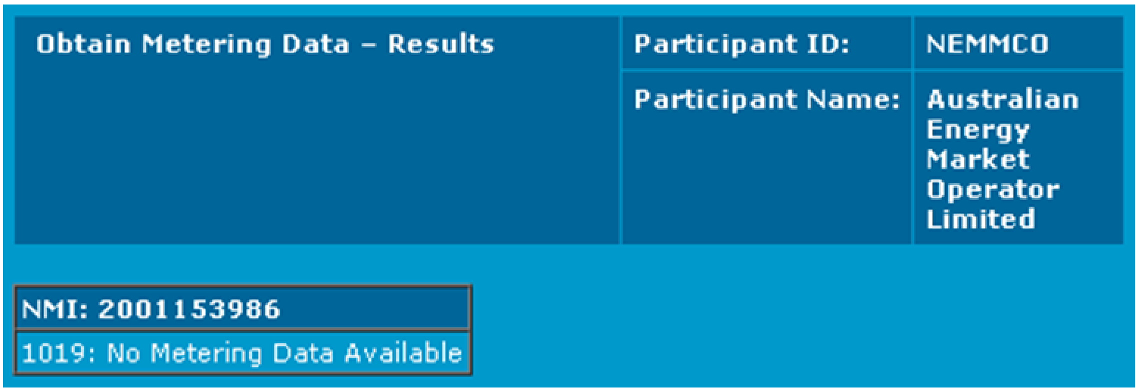
Previous reads unavailable

MSATS Metering Data	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

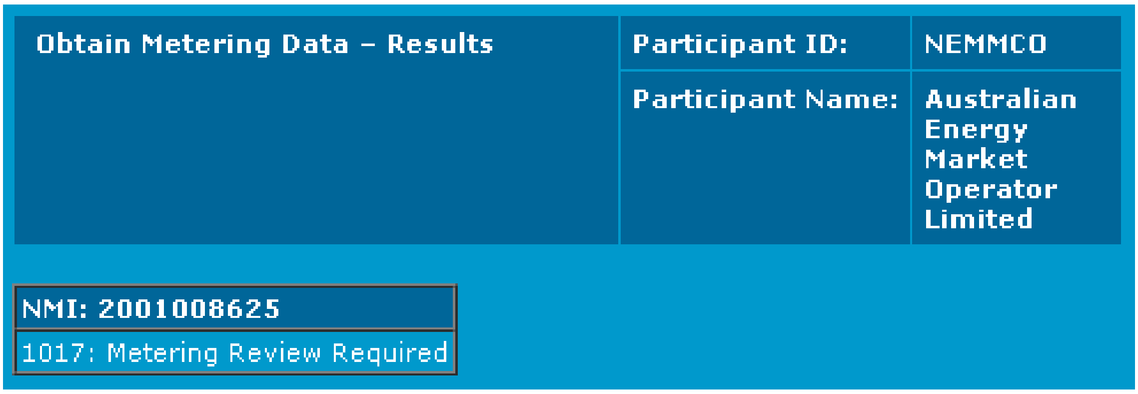
NMI: VYP2WTRAUA

1021: Not Applicable

No metering data available



Metering review required



NMI Discovery results explained

For a detailed explanation of MSATS data, see Standing Data for MSATS.

Table 10 Explanation of NMI Discovery results

Field	Description
Actual or Cumulative Indicator (ActCumInd)	Actual implies volume of energy actually metered between two dates. Cumulative indicates a meter reading is required to determine the consumption between those two read dates. For an interval meter, ActCumInd normally = A.
Aggregate Flag	Used by MDM to determine which Settlement report the data goes into.
Average Daily Load	The electrical energy delivered through a connection point or Metering point over an extended period normalised to a “per day” basis (kWh).
Building or Property Name	The full name used to identify the physical building or property as part of its location.
Classification Code	Defines the NMI’s size e.g. SMALL or LARGE. Used to enforce validation on a number of rules tables.
Customer Classification Code	Classifies the customer as BUSINESS or RESIDENTIAL. Set by the FRMP for the NMI.
Customer Threshold Code	Classifies the customer load as LOW, MEDIUM, or HIGH. Set by the DNSP for the NMI.
Controlled Load	Indicates whether the energy recorded by this register is created under a controlled load regime. Controlled Load field contains “No” if register does not relate to a controlled load and contains a description of the controlled load regime.
Datastream Type	Indicates the type of data the Datastream reports, includes Interval and Accumulation. This value must be either “I” (interval), “C“ (basic) or “P“ (profile).

Field	Description
Dial Format	Describes the register display format. First number is the number of digits to the left of the decimal place, and the second number is the number of digits to the right of the decimal place.
DLF Code	Distribution Loss Factor code. The DLF is used to scale a metered quantity from the Metering location to the relevant Transmission Network Connection point.
DPID	Delivery point identifier - the numeric descriptor for a postal delivery point, which is equal to a physical address. This is an Australia Post assigned number.
Embedded Network ID (Child)	Identifies which embedded network this NMI is the ‘child of’. If this field is blank, then the NMI is not in an embedded network.
Embedded Network ID (Parent)	Identifies which embedded network this NMI is the ‘parent of’. If this field is blank, then the NMI is not a parent of any other NMI.
End Date	The date until which data in the record applies. (This is not the date the record was updated.) If the end date is 31-Dec-9999, it means that the data in this record applies into the future.
Flat or Unit Number	Specification of the number of the flat or unit
Flat or Unit Type	Specification of the type of flat or unit that is a separately identifiable portion within a building or complex (for example, Apartment)
Floor or Level Number	Floor Number is used to identify the floor or level number of a multi-storey building or complex
Floor or Level Type	Floor type is used to identify the floor or level of a multi-storey building or complex.
House Number	The numeric reference of a house or property. Specifically the house number.

Field	Description
House Number Suffix	The numeric reference of a house or property. Specifically the single character identifying the house number suffix.
Jurisdiction	Jurisdiction to which the NMI belongs
LNSP	Local Network Service Provider
Location Descriptor	A general field to capture various references to address locations alongside another physical location.
Lot Number	The lot reference number allocated to an address prior to street numbering.
MDP	Meter Data Provider
Meter Serial Number	A unique serial number for a given NMI
Meter Status	A single character code to denote the status of the meter within the NEM
MPB	Meter Provider - Category B
MPC	Meter Provider - Category C
Multiplier	Multiplier taking a register value and turning it into a value representing billable energy.
Network Tariff Code	Code supplied and published by the LNSP.
Next Scheduled Read Date	Next scheduled read date of the meter.
NMI	National Metering Identifier
Postcode	The numeric descriptor for a postal delivery area, aligned with locality, suburb or place.
Previous Read Date (PRD)	The date of a previous Meter Reading.

Field	Description
Profile Name	A code identifying the name of the algorithmically derived shape used to allocate a Datastream's consumption to trading intervals.
Quality Flag	Determes the quality of the Metering Data.
Register ID	Meter register ID
Register Status	A single character lookup code indicating if the register is active.
Start Date	The start date from which the data in a record applies. (This is not the date the record was created.)
State	Defined State or Territory abbreviation e.g. NSW.
Status Code	Code used to indicate the status of the NMI. To learn more, Administration on page 213.
Stream Status Code	Code used to indicate the status of the suffix. This value must correspond to a valid stream status code in the MSATS_Codes_Values_table.
Street Name	Records the thoroughfare name, excluding its type
Street Name Suffix	Records any street suffixes, for example, SW, NE.
Street Type	Records the street type abbreviation, for example, ST or RD.
Suburb or Locality	The full name of the address locality.
Time of Day	Industry developed codes to identify the time validity of register contents.
TNI Code	Transmission Node Identifier; identifies the Transmission Network Connection Point.
Unit of Measure	Code to identify the Unit of Measure (UOM) for data held in this register
Unstructured Address 2	To provide the unstructured address where a structured address cannot be supplied

Field	Description
Unstructured Address 3	To provide the unstructured address where a structured address cannot be supplied.
Unstructured Address1	To provide the unstructured address where a structured address cannot be supplied. Subsequent unstructured address fields exclude information about the locality, postcode and state.

NMI data returned (multiple matches)

Detailed NMI information is provided to Participant Users when there are single or multiple matches returned on a NMI Discovery search. In addition to providing the NMI and the NMI checksum, MSATS returns the following address fields from the CATS_NMI_DATA table, provided the jurisdiction has authorised the return of the address details:

Flat Type	Flat Number	Floor Type
Floor Number	Building Name	Location Descriptor
House Number	House Number Suffix	Lot Number
Street Name	Street Type	Street Suffix
Locality	State	Postcode
DPID Number	Unstructured Address 1	Unstructured Address
Unstructured Address 3	EmbNet Parent	EmbNet Child

These fields are returned on NMIs where there are single or multiple matches, and shown when the NMI Discovery is executed using the web portal or the batch handlers. The address details are provided to help a Prospective Retailer narrow-down the search in the event of multiple matches.

NMI master

NMI master overview

The NMI Master submenu is used to locate and view the following information regarding NMI records:

- All records (both active and inactive) for a single NMI without being restricted by, a from and to date range.
- All NMIs that have or have had a relationship with the Role during a nominated date range.

NMI master user rights access

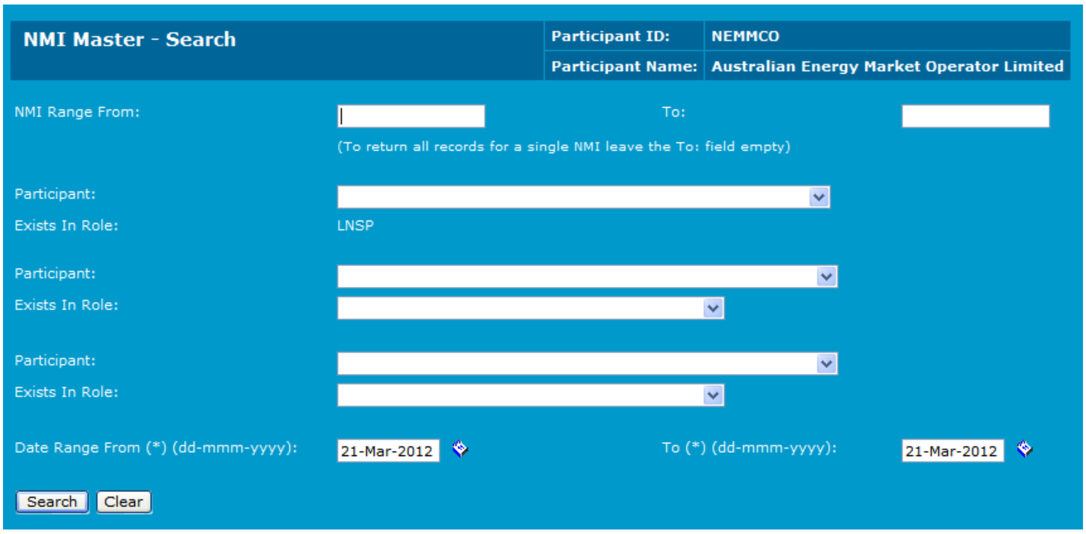
Participant Administrators control access to NMI Master using the NMI Master entity in the Administration menu in the MSATS Web Portal.

Using the NMI master search

To search for a NMI:

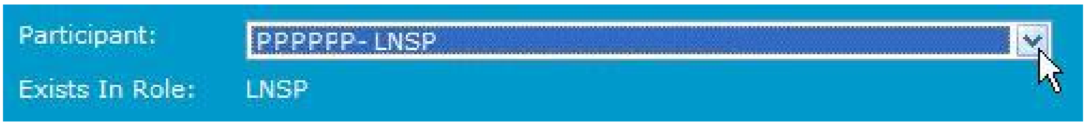
1. On the main menu, click NMI Information and then click NMI Master.

2. The NMI Master - Search interface displays. Type the range of NMIs in the NMI Range From and To fields.



Note: to see all master records for a single NMI, (both active and inactive records), enter a NMI in the NMI Range From field and leave the NMI Range To field blank.

3. Click the Participant drop-down arrow and select the participant who is currently assigned the Role of LNSP for the NMI range. All participants display in the list.



4. If required, select additional participants from the Participant and Exists In Role drop-down lists. Two additional participant and Role combinations can be selected.
5. Click the calendar icon to select the Date Range From and Date Range To. These are required fields with a range of up to 7 days allowed for selection. Selecting a Date Range limits the search to all NMIs that were current during the period and where the participant was active. The Date Range defaults to tomorrow's date (system date + 1).

   Alternatively, type the dates in dd-mmm-yyyy format.

6. Click Search to display the NMI Master - List search results.

If there are no corresponding NMIs, the following message displays, “Your search did not return a result, please try some other search criteria”.

Note: to sort the NMI Standing Data information, click the arrow in the NMI column heading. A NMI can be listed more than once on this interface if there are multiple records in the selected date range.

NMI Master - List

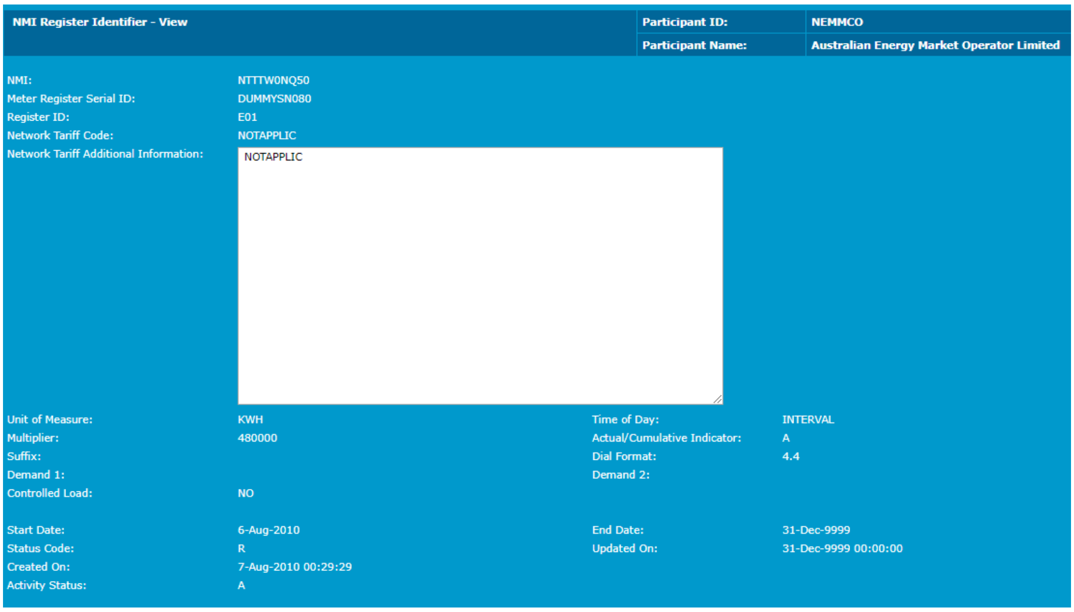
Participant ID:	PPPPPPPP
Participant Name:	PPPPPPPP - Retailer

NMI Standing Data

NMI	Checksum	LNSP	Start Date	End Date	Updated On	Created On	Action
DDDDDDD113	1		18-Oct-2007	31-Dec-9999	8-Oct-2007	8-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD113	1		18-Oct-2007	31-Dec-9999	31-Dec-9999	8-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD114	9		5-Aug-2007	31-Dec-9999	9-Oct-2007	9-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD114	9		10-Oct-2007	31-Dec-9999	9-Oct-2007	9-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD114	9		10-Oct-2007	31-Dec-9999	31-Dec-9999	9-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD114	9		3-Aug-2007	31-Dec-9999	9-Oct-2007	8-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All
DDDDDDD114	9		3-Aug-2007	31-Dec-9999	9-Oct-2007	9-Oct-2007	• View • View Data Streams • View Relationships • View Meter Registers • Show All

7. To obtain further information, in the Action column, do one of the following:

- Click View to display further NMI data.



- Click View Datastreams to see Datastream information.
- Click View Relationships to see participant relationships.
- Click View Meter Register to see meter register information.
- Click Show All to see a list of all NMI data records for the selected NMI without the date range criteria.

NMI master summary

NMI master summary overview

The NMI Master Summary submenu displays what the NMI looks like on a selected date. This can be either the current date or a previous date.

NMI master summary user rights access

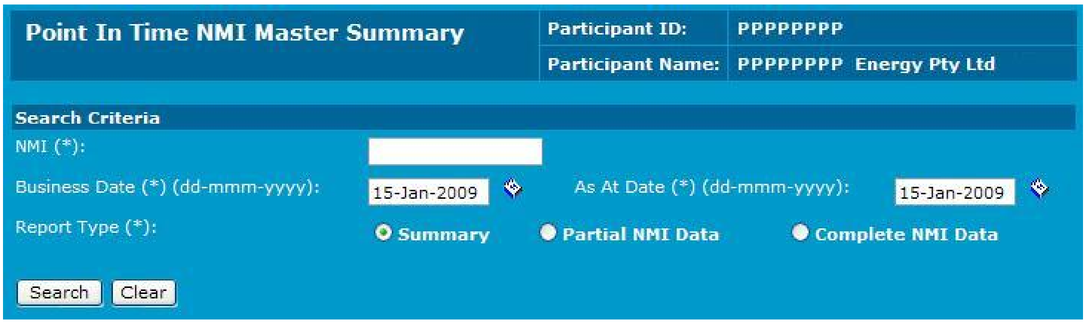
Participant Administrators control access to NMI Master Summary using the NMI Master entity in the Administration menu in the MSATS Web Portal.

Using master summary search

To do a NMI master summary search:

1. On the main menu, click NMI Information and then click NMI Master Summary.

2. The Point In Time NMI Master Summary interface displays with the Business Date and the As At Date fields pre-filled with the current date.



3. To change the dates, do one of the following:

   - Enter a date directly into the field in dd-mmm-yyyy format.
   - Click the calendar icon and select a date from the MSATS calendar.

4. Enter the NMI; this is a required field.
5. Select the amount of detail to display by choosing a Report Type:
   - Summary
   - Partial NMI Data
   - Complete NMI Data
6. Click Search.

   Alternatively, click Clear to clear the fields and make your selections again.

7. The following items display on the Point In Time NMI Master Summary interface under the Search button.
8. Select any of these items to show further details. See the examples below.

   Note: the information displayed differs according to the Report Type selected. The examples below use the Report Type - Complete NMI Data.

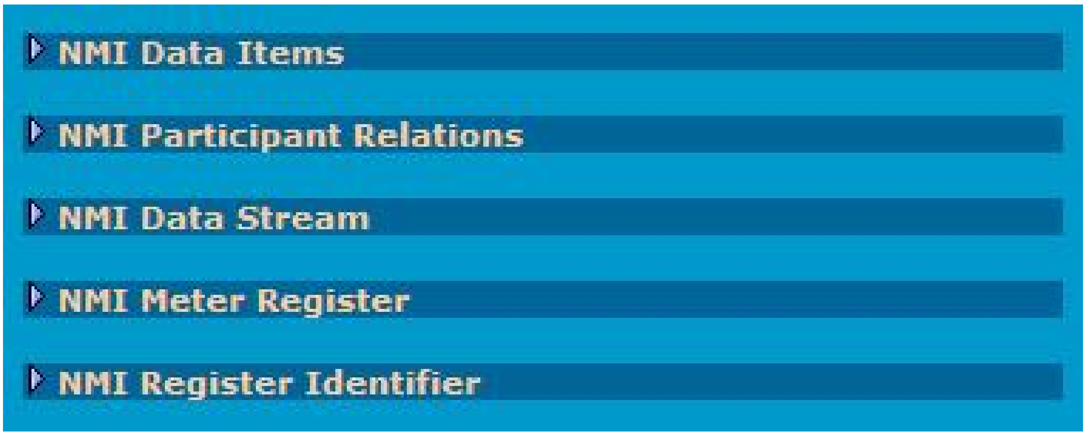


Figure 7 Example of the information in the NMI Data Items section.

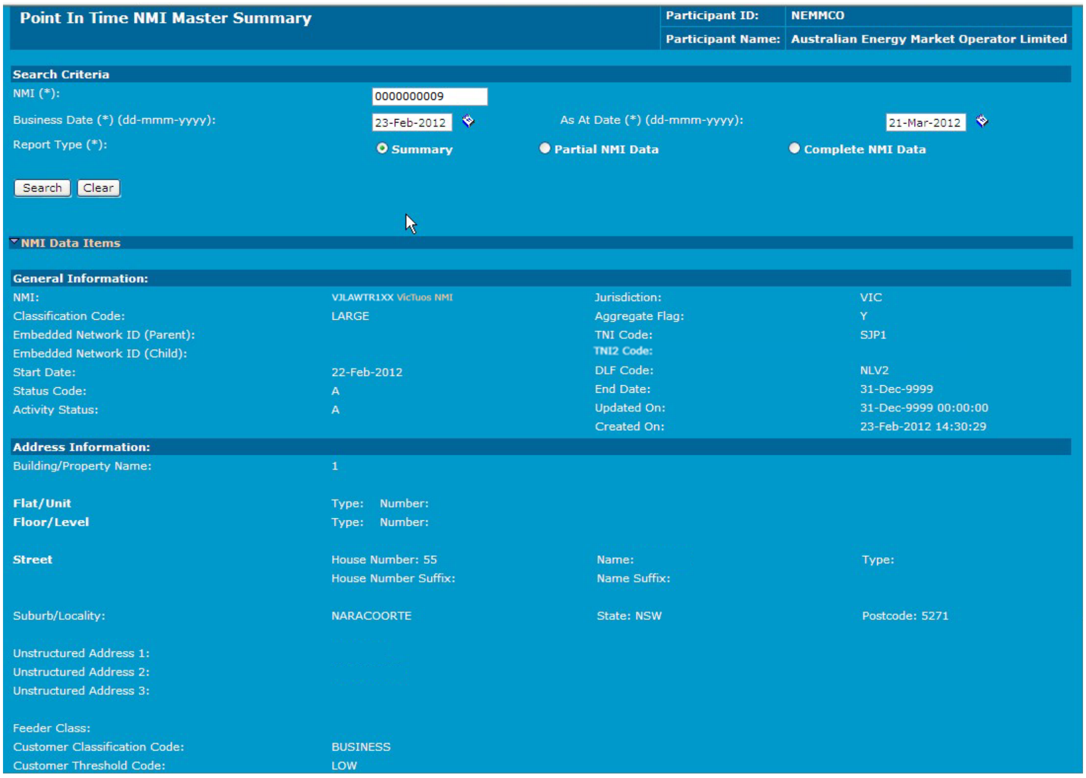
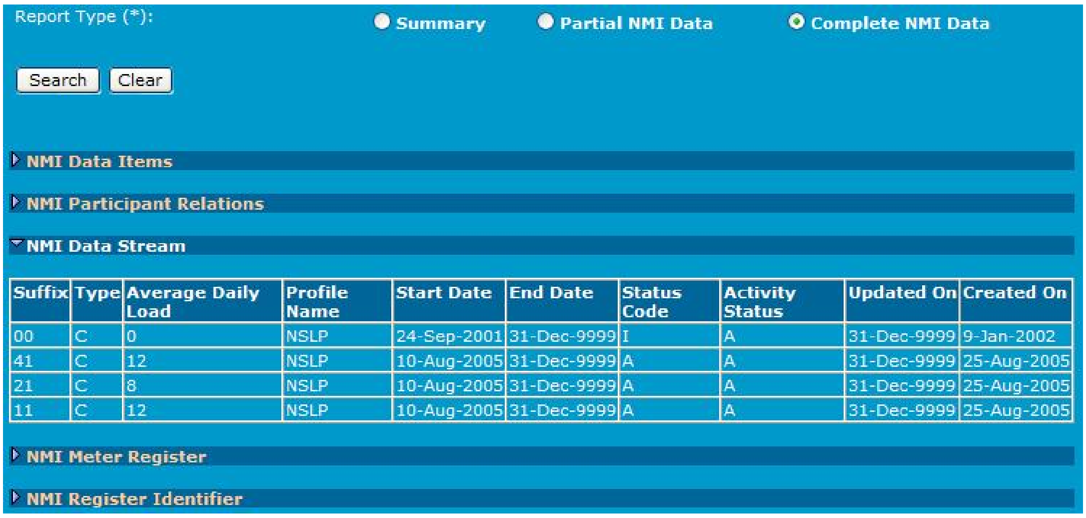


Figure 8 Example of the information in the NMI Participant Relations section.

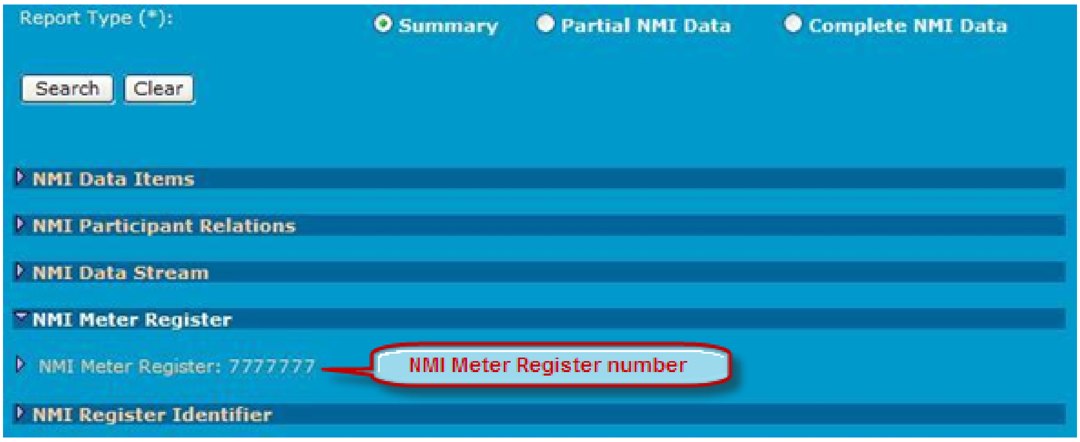
Role	Participant ID	Start Date	End Date	Activity Status	Updated On	Created On
FRMP	FFFFFFFFFFF	15-May-2007	31-Dec-9999	A	31-Dec-9999	17-May-2007
LNSP	LLLLLLLL	24-Sep-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002
LR	RRRRRRRR	24-Sep-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002
RP	LLLLLLLL	15-May-2007	31-Dec-9999	A	31-Dec-9999	17-May-2007
MPB	MMMMM	24-Sep-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002
MPC	CCCCCC	24-Sep-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002
ROLR	OOOOOOO	24-Sep-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002
MDP	PPPPPPP	15-May-2007	31-Dec-9999	A	31-Dec-9999	17-May-2007

Figure 9 Example of the information in the NMI Datastream section.



Suffix	Type	Average Daily Load	Profile Name	Start Date	End Date	Status Code	Activity Status	Updated On	Created On
00	C	0	NSLP	24-Sep-2001	31-Dec-9999	I	A	31-Dec-9999	9-Jan-2002
41	C	12	NSLP	10-Aug-2005	31-Dec-9999	A	A	31-Dec-9999	25-Aug-2005
21	C	8	NSLP	10-Aug-2005	31-Dec-9999	A	A	31-Dec-9999	25-Aug-2005
11	C	12	NSLP	10-Aug-2005	31-Dec-9999	A	A	31-Dec-9999	25-Aug-2005

Figure 10 Example of the information in the NMI Meter Register section.



- Click the NMI Meter Register number, to view details for an individual NMI Meter Register item.

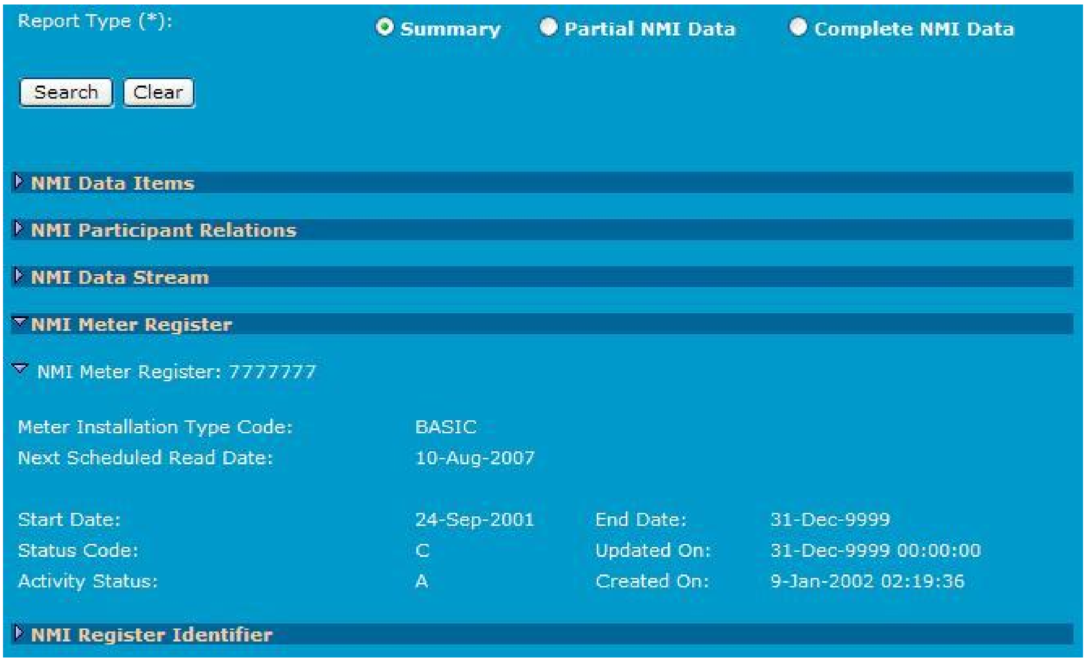
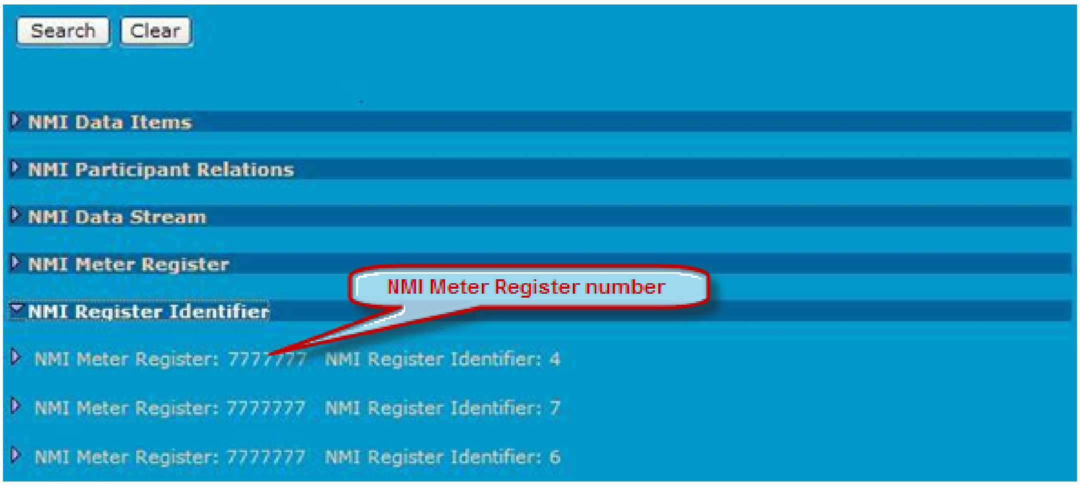
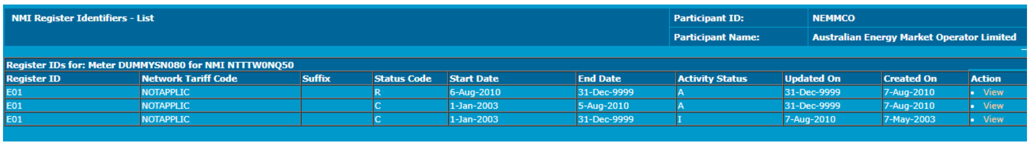


Figure 11 Example of the information in the NMI Register Identifier section.



- Click the NMI Register Identifier number to display the list of NMI registers for NMI meter registers.

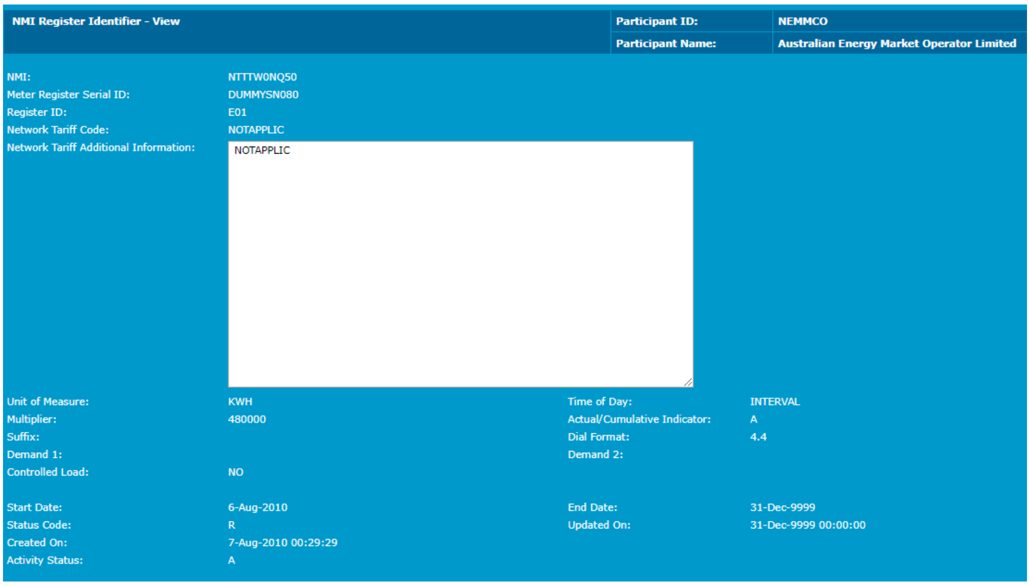


NMI Register Identifiers - List | Participant ID: NEMMCO | Participant Name: Australian Energy Market Operator Limited

Register IDs for: Meter DUMMYSN080 for NMI NTTTW0NQ50

Register ID	Network Tariff Code	Suffix	Status Code	Start Date	End Date	Activity Status	Updated On	Created On	Action
E01	NOTAPPLIC		R	6-Aug-2010	31-Dec-9999	A	31-Dec-9999	7-Aug-2010	View
E01	NOTAPPLIC		C	1-Jan-2003	5-Aug-2010	A	31-Dec-9999	7-Aug-2010	View
E01	NOTAPPLIC		C	1-Jan-2003	31-Dec-9999	I	7-Aug-2010	7-May-2003	View

- Click the NMI Meter Register number to display further details.



Participant relationships

Participant relationships overview

From the Participant Relationships menu, you can list associated participants and the Roles they are assigned for each NMI. It also contains an option to see detailed participant information and history.

Participant relationships user rights access

Participant Administrators control access to Participant Relationships using the Participant Relationships entity in the Administration menu in the MSATS Web Portal.

Searching for participant relationship information

To search for participant relationship information:

1. On the main menu, click NMI Information and then click Participant Relationships.
2. The Participant Relationships - Select interface displays. In the Enter NMI field, type the NMI and click Show Related Participants.

3. The Participant Relationships - Results interface displays with the results sorted by participant name. This interface is read-only; you cannot modify NMI information from this interface.

   If the value in the Activity Status column is I, then the record is inactive. The date the record became inactive displays in the Updated On column.

4. Click NMI Master in the Action column to select additional information for the NMI. You are directed to the NMI Master - Search interface.


Participant Relationships - Results

Participant ID: PPPPPPPP

Participant Name: PPPPPPPP - Retailer

Relationships: 4103029523 NMI Status Code: A

Role	Participant Name	Participant ID	Start Date	End Date	Activity Status	Updated On	Created On	Action
LR	PPPPP - Retailer	PPPPPPPPP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
FRMP	PPPPP - Retailer	PPPPPPPPP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
ROLR	PPPPP - Retailer	PPPPPPPPP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
RP	PPPPP - LNSP	PPPPPPPPP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
LNSP	PPPPP - LNSP	PPPPPPPPP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
MDP	MDP MDP MDP MDP MDP MDP MDP MDP	MDPMDP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
MPC	MDP MDP MDP MDP MDP MDP MDP MDP	MDPMDP	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master
MPB	MPB MPB MPB MPB MPB MPB MPB MPB MPB MPB	MPBMPB	22-Dec-2001	31-Dec-9999	A	31-Dec-9999	9-Jan-2002	• NMI Master

Profile Preparation

About profile preparation

Authorised Participant Users can perform Metering Data Management (eMDM) functions from the Profile Preparation menu.

These functions include:

- Defining profile methods and areas
- Defining data sources
- Creating profiles

Profile data source

Profile data source overview

Profile data sources define the NMI Datastreams from which a profile receives its profiling or Metering Data. Each data source contains a list of NMI Datastreams that make up the profile, along with its weighting (such as, the weighting each individual stream of data contributes to the total).

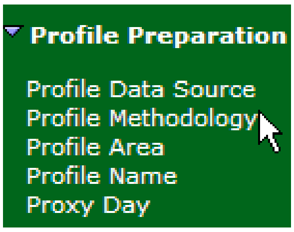
These are the interval Datastreams used by the profiling engine to calculate the profile shape and data for profiling a non-interval meter. This data could be; the half-hour data from actual interval meters; the half-hour data of a profile shape provided by a profile preparation service; or a combination of both.

Profile data source user rights access

Participant Administrators control access to Profile Data Source using the Profile Data Source entity in the Administration menu in the MSATS Web Portal.

Viewing Profile data source

To view profile data source information:



1. On the main menu, click Profile Preparation and then click Profile Data Source.
2. The Profile Data Source - List displays, for help understanding the fields, Profile data source fields on page 134. To view further information, in the Action column do one of the following:
   - Click View to see the Profile Data Source - View interface.
   - Click Show All to see the Profile Data Source - Show All interface.

Click the **Name** column heading to sort by ascending or descending order.

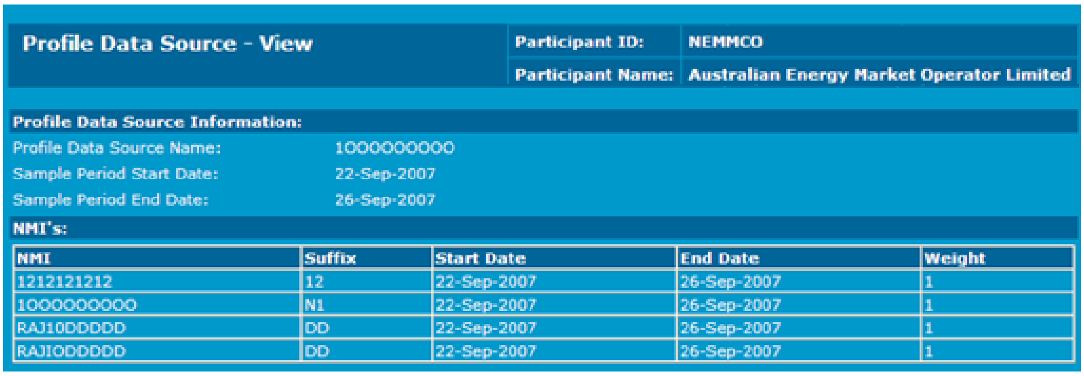
Figure 12 Profile Data Source - List

Profile Data Source - List

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Data Source					New
Name	Sample Period Start Date	Sample Period End Date	Updated On	Updated By	Action
ACA1 SYSTEM LOAD DS	17-Jun-2003	31-Dec-9999	19-Dec-2008	SYSADMIN	• View • Show All
AQB1 SYSTEM LOAD DS	17-Jun-2003	31-Dec-9999	11-Jun-2003	SYSADMIN	• View • Show All
AQB2 SYSTEM LOAD DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All
CLOADNSWAI DS	22-Dec-2001	22-Mar-2007	12-Apr-2007	SYSADMIN	• View • Show All
CLOADNSWCE DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All
CLOADNSWEA DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All
CLOADNSWIE DS	22-Dec-2001	31-Dec-9999	18-Apr-2007	SYSADMIN	• View • Show All
NALB SYSTEM LOAD DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All
NALC SYSTEM LOAD DS	5-Sep-2004	31-Dec-9999	27-Oct-2004	SYSADMIN	• View • Show All
NANM SYSTEM LOAD DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All
NAR1 SYSTEM LOAD DS	22-Dec-2001	31-Dec-9999	17-Jan-2007	SYSADMIN	• View • Show All
NBAL SYSTEM LOAD DS	22-Dec-2001	31-Dec-9999	22-Dec-2001	SYSADMIN	• View • Show All

Figure 13 Profile Data Source - View



Profile Data Source - View

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

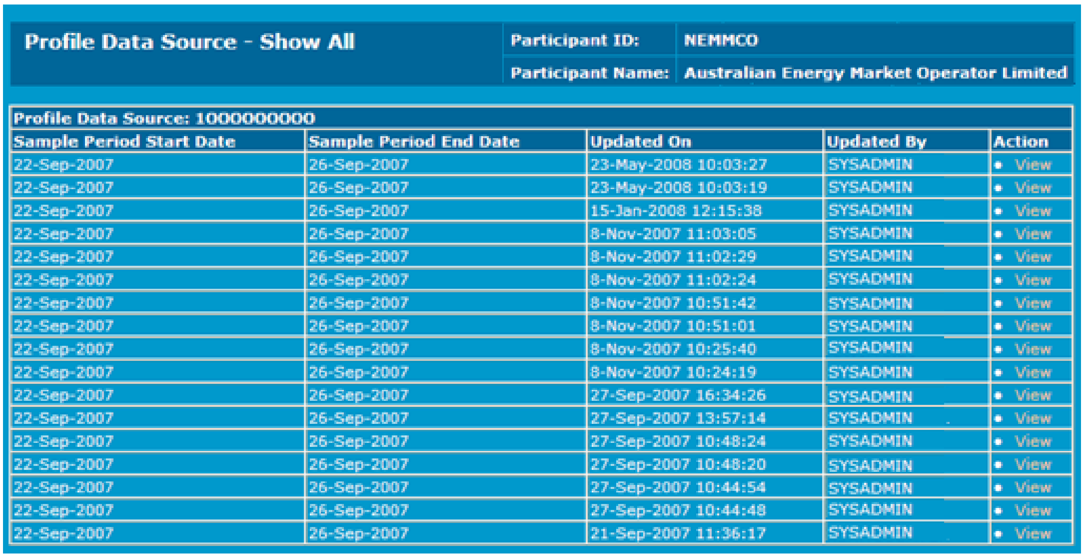
Profile Data Source Information:

Profile Data Source Name:	1000000000
Sample Period Start Date:	22-Sep-2007
Sample Period End Date:	26-Sep-2007

NMI's:

NMI	Suffix	Start Date	End Date	Weight
1212121212	12	22-Sep-2007	26-Sep-2007	1
1000000000	N1	22-Sep-2007	26-Sep-2007	1
RAJ10DDDDD	DD	22-Sep-2007	26-Sep-2007	1
RAJIODDDDD	DD	22-Sep-2007	26-Sep-2007	1

Figure 14 Profile Data Source - Show All



Profile Data Source - Show All

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Data Source: 1000000000

Sample Period Start Date	Sample Period End Date	Updated On	Updated By	Action
22-Sep-2007	26-Sep-2007	23-May-2008 10:03:27	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	23-May-2008 10:03:19	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	15-Jan-2008 12:15:38	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 11:03:05	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 11:02:29	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 11:02:24	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 10:51:42	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 10:51:01	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 10:25:40	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	8-Nov-2007 10:24:19	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 16:34:26	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 13:57:14	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 10:48:24	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 10:48:20	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 10:44:54	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	27-Sep-2007 10:44:48	SYSADMIN	• View
22-Sep-2007	26-Sep-2007	21-Sep-2007 11:36:17	SYSADMIN	• View

To return to the Profile Data Source - View interface, on the Profile Data Source - Show All interface, click View in the Action column.

Table 11 Profile data source fields

Field	Description
Profile Data Source Name	Unique name given to a profile data source record
Sample Period Start Date	The date MSATS begins to collect interval meter data for the purposes of estimation and Settlement.
Sample Period End Date	The end-date MSATS stops collecting interval meter data for estimation and Settlement. If the data source is still in use for future dates, this is 31-Dec-9999.
NMI	The unique identifier for the profile data source record.
Suffix	The Datastream suffix for the identified NMI that contains the data that is a data source for the named profile.

Field	Description
Start Date	The date interval meter data associated with this NMI suffix was included in the data sources for this profile.
End Date	The date at which interval meter data associated with this NMI suffix ceased to be included in the data sources for this profile. If data is still included for this suffix, this is 31-Dec-9999.
Weight	Multiplication factor applied to the data for the identified suffix. NMI suffixes with a higher weight have higher importance in the calculation of a profile shape. Therefore, a weight of 0.99 greatly influences the profile where a weight of 0.02 does not.

Profile methodology

Profile methodology overview

A profile methodology defines an algorithm that is used to calculate values for missing interval data when it is required for a Settlement. Every Datastream has a profile type associated with it. Interval meters have a profile type that is associated with its own historic data. Non-interval meters have either a profile type of NSLP or another profile.

Profile methodology defines what data is extracted from the data source and applied to consumption data. It defines the season and day types used for a profile.

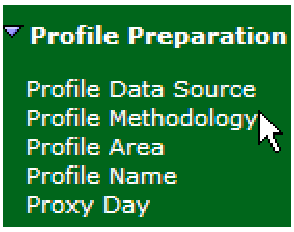
Profile methodology user rights access

Participant Administrators control access to Profile Methodology using the Profile Methodology entity in the Administration menu in the MSATS Web Portal.

Viewing profile methodology

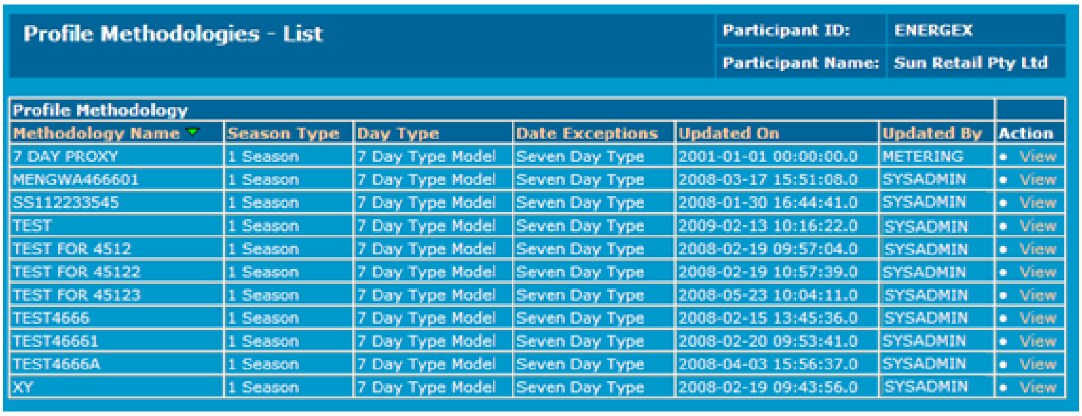
To view profile methodologies:

1. On the main menu, click Profile Preparation and then click Profile Methodology.



2. The Profile Methodologies - List displays, click View in the Action column to view further details. For help understanding the fields Profile Methodologies fields on the next page.

   Note: click the MethodologyName column heading to sort by ascending or descending order.

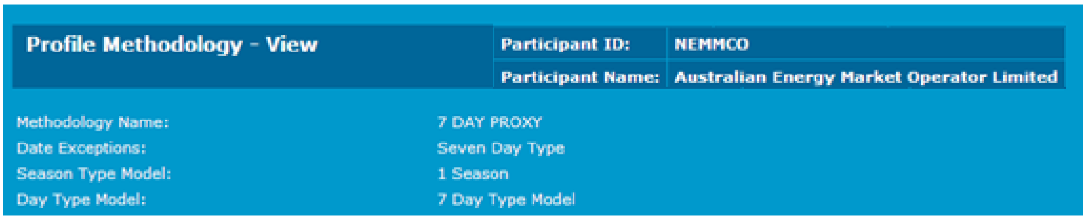


Profile Methodologies - List | Participant ID: ENERGEX | Participant Name: Sun Retail Pty Ltd

Profile Methodology

Methodology Name	Season Type	Day Type	Date Exceptions	Updated On	Updated By	Action
7 DAY PROXY	1 Season	7 Day Type Model	Seven Day Type	2001-01-01 00:00:00.0	METERING	• View
MENGWA466601	1 Season	7 Day Type Model	Seven Day Type	2008-03-17 15:51:08.0	SYSADMIN	• View
SS112233545	1 Season	7 Day Type Model	Seven Day Type	2008-01-30 16:44:41.0	SYSADMIN	• View
TEST	1 Season	7 Day Type Model	Seven Day Type	2009-02-13 10:16:22.0	SYSADMIN	• View
TEST FOR 4512	1 Season	7 Day Type Model	Seven Day Type	2008-02-19 09:57:04.0	SYSADMIN	• View
TEST FOR 45122	1 Season	7 Day Type Model	Seven Day Type	2008-02-19 10:57:39.0	SYSADMIN	• View
TEST FOR 45123	1 Season	7 Day Type Model	Seven Day Type	2008-05-23 10:04:11.0	SYSADMIN	• View
TEST4666	1 Season	7 Day Type Model	Seven Day Type	2008-02-15 13:45:36.0	SYSADMIN	• View
TEST46661	1 Season	7 Day Type Model	Seven Day Type	2008-02-20 09:53:41.0	SYSADMIN	• View
TEST4666A	1 Season	7 Day Type Model	Seven Day Type	2008-04-03 15:56:37.0	SYSADMIN	• View
XY	1 Season	7 Day Type Model	Seven Day Type	2008-02-19 09:43:56.0	SYSADMIN	• View

3. The Profile Methodology - View interface displays.



Profile Methodology - View | Participant ID: NEMMCO | Participant Name: Australian Energy Market Operator Limited

Methodology Name:	7 DAY PROXY
Date Exceptions:	Seven Day Type
Season Type Model:	1 Season
Day Type Model:	7 Day Type Model

Table 12 Profile Methodologies fields

Field	Description
Methodology Name	The name of the methodology; used throughout MSATS to represent this methodology.
Season Type	A season model divides the year into groups of time. For example, a “4 season” season type has 4 groups of days, Winter, Spring, Summer and Autumn. When the profiling engine processes a profile, it looks for the first day of “full data” with the same season type. In MDM, a single season is used.
Day Type	A day type model divides a week into groups of time. For example, a “2-day” day type has 2 groups of days, weekends and weekdays. When the profiling engine does a look up of a profile for a particular day’s data it looks for the first full day of full data with the same day type. In MDM, a 7-day model is used.
Date Exceptions	Date Exceptions are a set of days when the normal day types do not apply. For example, For a holiday that falls on a weekday, the weekend value is used instead of the weekday profile.
Updated On	The date and time the profile methodology was updated.
Updated By	The Participant User ID of the operator who updated the record.

Profile area

Profile area overview

A profile area is a virtual grouping of TNIs used for Settlement calculations. A single ‘Net System Load Profile’ (NSLP) is calculated for each profile area defined in MSATS.

Each TNI is allocated to a single profile area. If a jurisdiction metrology procedure permits type 6 Metering installations, the TNIs must be assigned to profile areas in accordance with the metrology procedure. In jurisdictions where a metrology procedure is not active for type 6 Metering installations, the allocation of TNIs to profile areas may be arbitrary.

A profile area can only be assigned to one Jurisdiction. Profile areas are based loosely on DNSP boundaries. The profile area identifies one or more TNI data sources for which the associated profile methodology is applied.

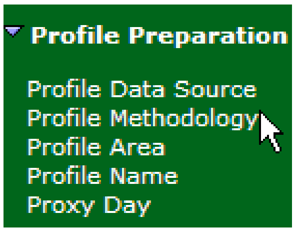
Profile Area user rights access

Participant Administrators control access to Profile Area using the Profile Area entity in the Administration menu in the MSATS Web Portal.

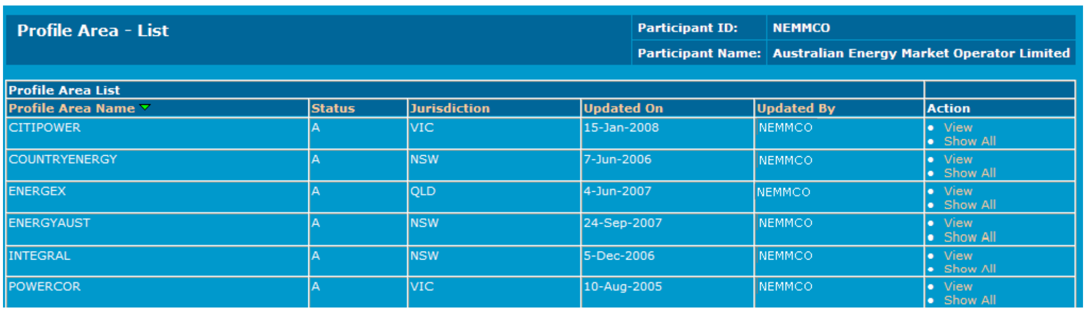
Viewing the profile area

To view the profile area:

1. On the main menu, click Profile Preparation and then click Profile Area.
2. The Profile Area - List displays. For help understanding the fields, Profile area fields on the next page.



Note: click any of the column name headings to sort by ascending or descending order.



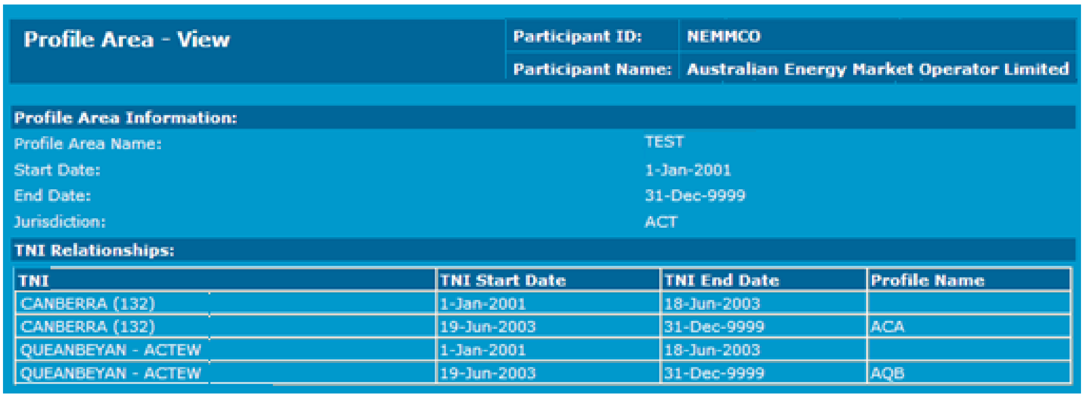
Profile Area - List

Participant ID: NEMMCO
Participant Name: Australian Energy Market Operator Limited

Profile Area List

Profile Area Name	Status	Jurisdiction	Updated On	Updated By	Action
CITIPOWER	A	VIC	15-Jan-2008	NEMMCO	View Show All
COUNTRYENERGY	A	NSW	7-Jun-2006	NEMMCO	View Show All
ENERGEX	A	QLD	4-Jun-2007	NEMMCO	View Show All
ENERGYAUST	A	NSW	24-Sep-2007	NEMMCO	View Show All
INTEGRAL	A	NSW	5-Dec-2006	NEMMCO	View Show All
POWERCOR	A	VIC	10-Aug-2005	NEMMCO	View Show All

3. To view further details, from the Action column do one of the following:
   - Click the View link.
   - Click the Show All link.



Profile Area - View

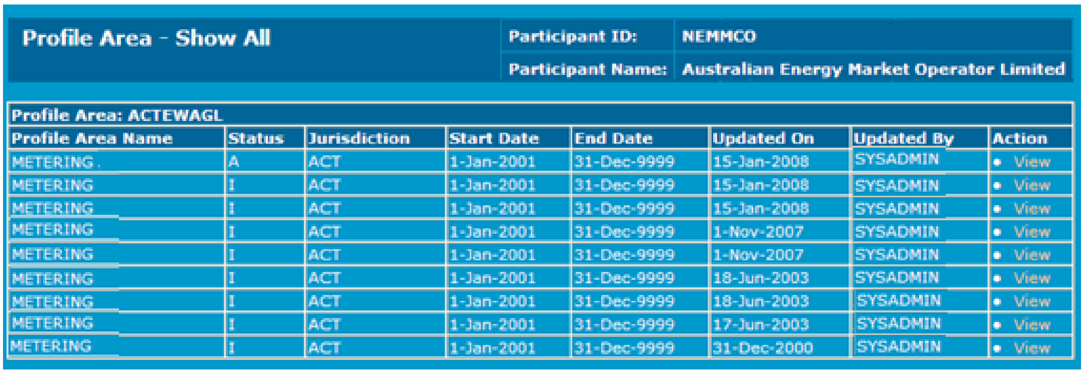
Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Area Information:

Profile Area Name:	TEST
Start Date:	1-Jan-2001
End Date:	31-Dec-9999
Jurisdiction:	ACT

TNI Relationships:

TNI	TNI Start Date	TNI End Date	Profile Name
CANBERRA (132)	1-Jan-2001	18-Jun-2003	
CANBERRA (132)	19-Jun-2003	31-Dec-9999	ACA
QUEANBEYAN - ACTEW	1-Jan-2001	18-Jun-2003	
QUEANBEYAN - ACTEW	19-Jun-2003	31-Dec-9999	AQB



Profile Area - Show All

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Area: ACTEWAGL

Profile Area Name	Status	Jurisdiction	Start Date	End Date	Updated On	Updated By	Action
METERING	A	ACT	1-Jan-2001	31-Dec-9999	15-Jan-2008	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	15-Jan-2008	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	15-Jan-2008	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	1-Nov-2007	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	1-Nov-2007	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	18-Jun-2003	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	18-Jun-2003	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	17-Jun-2003	SYSADMIN	View
METERING	I	ACT	1-Jan-2001	31-Dec-9999	31-Dec-2000	SYSADMIN	View

   - On the Profile Area - Show All interface, click View to return to the Profile Area - View interface.
   - Click the Profile Area sub menu to return to the Profile Area - List interface.

Table 13 Profile area fields

Field	Description
Profile Area Name	A unique identifier for the profile area record.
Status	Status of the reading. A status is included for each ½ hourly reading. A - active

Field	Description
	I - inactive
Jurisdiction	The jurisdiction in which this profile area applies.
Start Date	The start date of the profile area.
End Date	The date the profile area ceased to be active. If the profile area is still in use for future dates, this is 31-Dec-9999.
Updated On	The date and time the profile area was updated.
Updated By	The Participant User ID of the operator who updated the record.

Profile name

Profile name overview

A profile name associates a data source with a methodology and applies it in one or more profile areas.

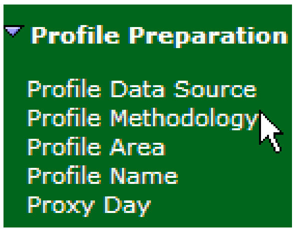
Profile name user rights access

Participant Administrators control access to Profile Name using the Profile Name entity in the Administration menu in the MSATS Web Portal.

Viewing profile names

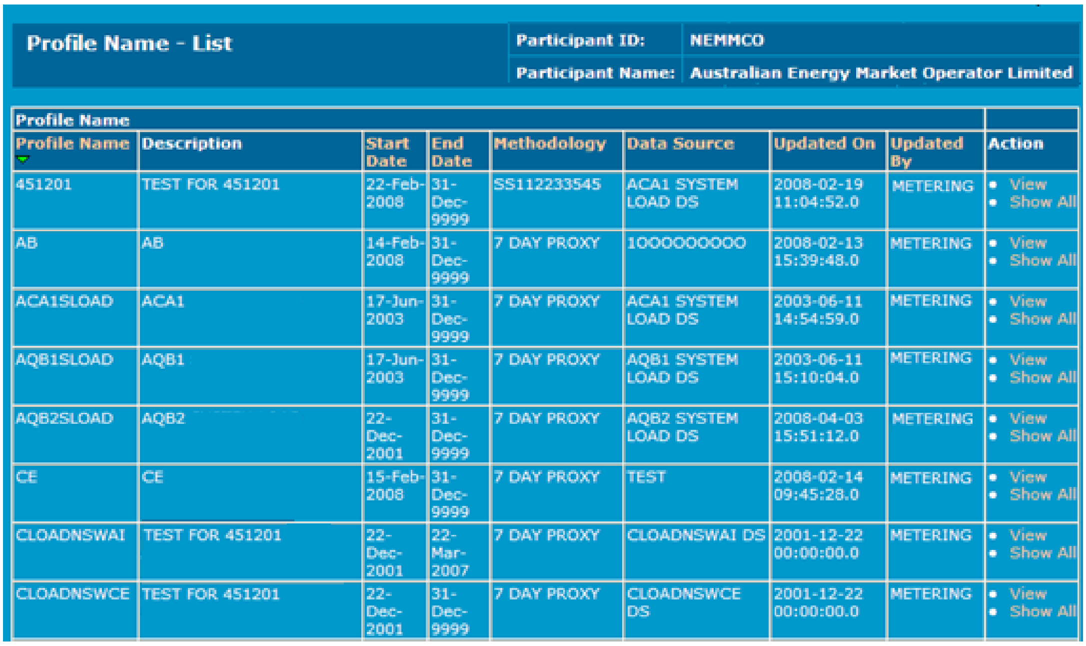
To view profile names:

1. On the main menu, click Profile Preparation and then click Profile Name.



2. The Profile Name - List displays. For help understanding the fields, Profile name fields on the next page.

   Note: click the Profile Name column to sort by ascending or descending order.

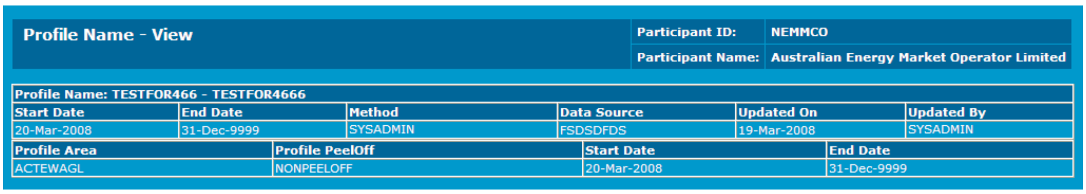


Profile Name - List

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Name	Description	Start Date	End Date	Methodology	Data Source	Updated On	Updated By	Action
451201	TEST FOR 451201	22-Feb-2008	31-Dec-9999	SS112233545	ACA1 SYSTEM LOAD DS	2008-02-19 11:04:52.0	METERING	View Show All
AB	AB	14-Feb-2008	31-Dec-9999	7 DAY PROXY	1000000000	2008-02-13 15:39:48.0	METERING	View Show All
ACA1SLOAD	ACA1	17-Jun-2003	31-Dec-9999	7 DAY PROXY	ACA1 SYSTEM LOAD DS	2003-06-11 14:54:59.0	METERING	View Show All
AQB1SLOAD	AQB1	17-Jun-2003	31-Dec-9999	7 DAY PROXY	AQB1 SYSTEM LOAD DS	2003-06-11 15:10:04.0	METERING	View Show All
AQB2SLOAD	AQB2	22-Dec-2001	31-Dec-9999	7 DAY PROXY	AQB2 SYSTEM LOAD DS	2008-04-03 15:51:12.0	METERING	View Show All
CE	CE	15-Feb-2008	31-Dec-9999	7 DAY PROXY	TEST	2008-02-14 09:45:28.0	METERING	View Show All
CLOADNSWAI	TEST FOR 451201	22-Dec-2001	22-Mar-2007	7 DAY PROXY	CLOADNSWAI DS	2001-12-22 00:00:00.0	METERING	View Show All
CLOADNSWCE	TEST FOR 451201	22-Dec-2001	31-Dec-9999	7 DAY PROXY	CLOADNSWCE DS	2001-12-22 00:00:00.0	METERING	View Show All

3. To view further details, from the Action column do one of the following:
   - Click the View link.
   - Click the Show All link.



Profile Name - View

Participant ID:	NEMMCO
Participant Name:	Australian Energy Market Operator Limited

Profile Name: TESTFOR466 - TESTFOR4666

Start Date	End Date	Method	Data Source	Updated On	Updated By
20-Mar-2008	31-Dec-9999	SYSADMIN	FSDSDFDS	19-Mar-2008	SYSADMIN

Profile Area	Profile PeelOff	Start Date	End Date
ACTEWAGL	NONPEELOFF	20-Mar-2008	31-Dec-9999

Profile Name - Show All	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Profile Name: 451201						
Start Date	End Date	Methodology	Data Source	Updated On	Updated By	Action
22-Feb-2008	31-Dec-9999	SS112233545	ACA1 SYSTEM LOAD DS	19-Feb-2008	SYSADMIN	• View
20-Feb-2008	31-Dec-9999	7 DAY PROXY	ABEFFDSAFDSA	19-Feb-2008	SYSADMIN	• View
20-Feb-2008	31-Dec-9999	7 DAY PROXY	ABEFFDSAFDSA	19-Feb-2008	SYSADMIN	• View

- On the Profile Name - Show All interface, click View to return to the Profile Name- View interface.
- Click the Profile Name sub menu to return to the Profile Name - List interface.

Table 14 Profile name fields

Field	Description
Profile Name	A unique name for the set of rules.
Description	A description of the profile name.
Start Date	The start date of the profile.
End Date	The date the profile ceased to be active. If the profile name is still in use for future dates, this is 31-Dec-9999.
Methodology	The profile methodology assigned to this profile name.
Data Source	The profile data source that provides the data for the profile.
Updated On	The date and time the profile was last updated.
Updated By	The Participant User ID of the operator who last updated the profile name.
Profile Area	The name of each profile area where the profile applies.
Profile Peel Off	This field indicates whether profiled data prepared for Datastreams with this profile name must be peeled off as part of the NSLP calculation. If the value is 'PEELOFF', interval data derived using this profile name is subtracted from the system load. If the value is NONPEELOFF, it is not subtracted.

Data Load Import

About data load import

The Data Load Import menu provides storage for exchanges, carrying messages between the MSATS system and participant systems.

Participant inbox

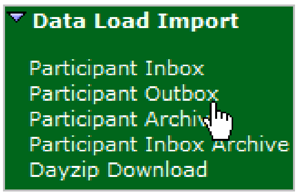
Participant inbox overview

The participant inbox is where participants place files for processing by the MSATS system.

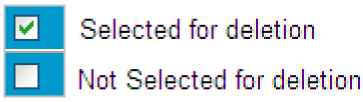
Participant inbox user rights access

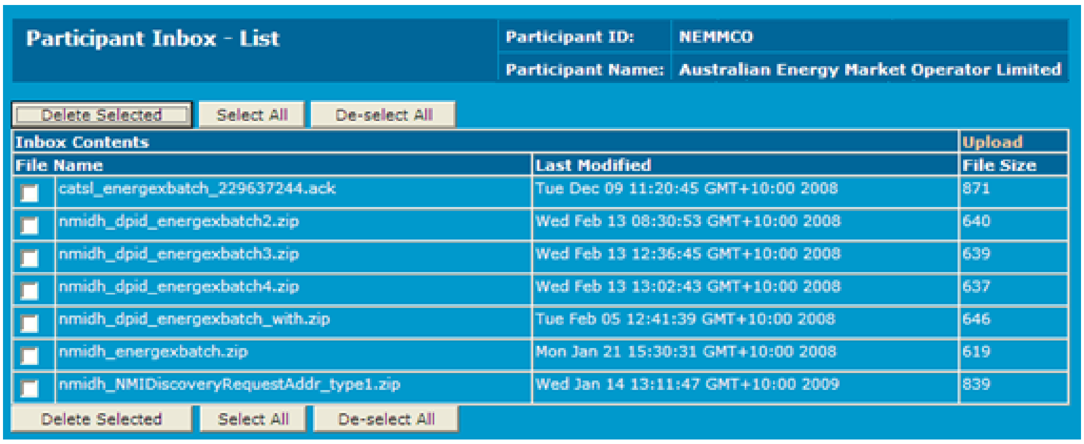
Participant Administrators control access to Participant Inbox using the Data Load Import (Participant Inbox & Participant Outbox) entity in the Administration menu in the MSATS Web Portal.

Viewing the participant inbox



1. On the main menu, click Data Load Import and then click Participant Inbox.
2. The Participant Inbox - List interface displays with a listing of files that have been uploaded into the MSATS system. Uploaded files can also be deleted from the participant inbox by doing the following:
    - Click Select All to place a tick next to all File Names and then click Delete Selected.
    - Delete individual files by placing a tick next to each File Name and clicking Delete Selected.
    - Click De-select All to unselect any File Names with a tick.





Participant Inbox - List | Participant ID: NEMMCO | Participant Name: Australian Energy Market Operator Limited

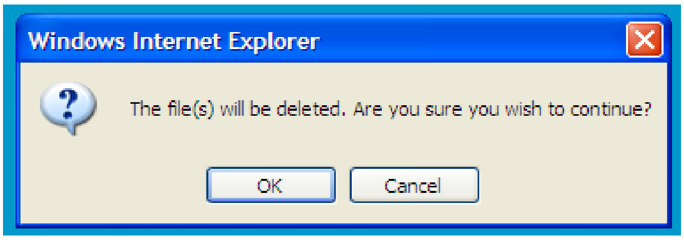
Delete Selected | Select All | De-select All

Inbox Contents

	File Name	Last Modified	Upload File Size
	catsl_energexbatch_229637244.ack	Tue Dec 09 11:20:45 GMT+10:00 2008	871
	nmidh_dpid_energexbatch2.zip	Wed Feb 13 08:30:53 GMT+10:00 2008	640
	nmidh_dpid_energexbatch3.zip	Wed Feb 13 12:36:45 GMT+10:00 2008	639
	nmidh_dpid_energexbatch4.zip	Wed Feb 13 13:02:43 GMT+10:00 2008	637
	nmidh_dpid_energexbatch_with.zip	Tue Feb 05 12:41:39 GMT+10:00 2008	646
	nmidh_energexbatch.zip	Mon Jan 21 15:30:31 GMT+10:00 2008	619
	nmidh_NMIDiscoveryRequestAddr_type1.zip	Wed Jan 14 13:11:47 GMT+10:00 2009	839

Delete Selected | Select All | De-select All

3. Click OK to confirm the deletion.



Uploading a file

To upload Transactions:

1. Create an .XML file containing the Transaction information. For help creating aseXML files, see aseXML Guidelines.

For help with the MDP file format, see MDM File Format and Load Process.

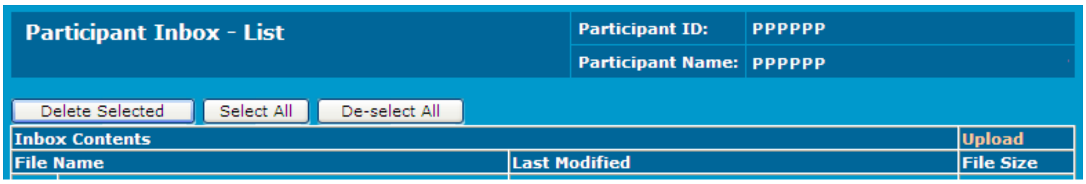
2. Compress the file and save it with a zip extension, following the MSATS file name standards. For example:

   catsm_<Participantid>_<uniqueId>.zip

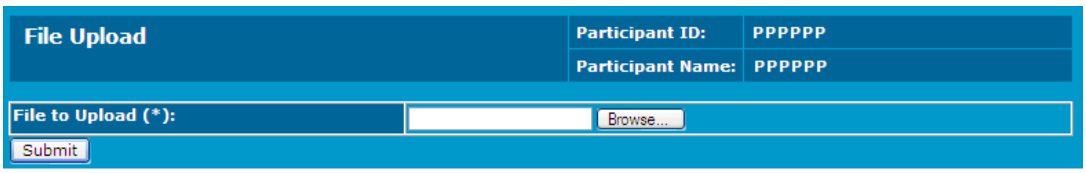
   For help, see file name format in Technical Guide to MSATS.

3. On the main menu, click Data Load Import and then click Participant Inbox.

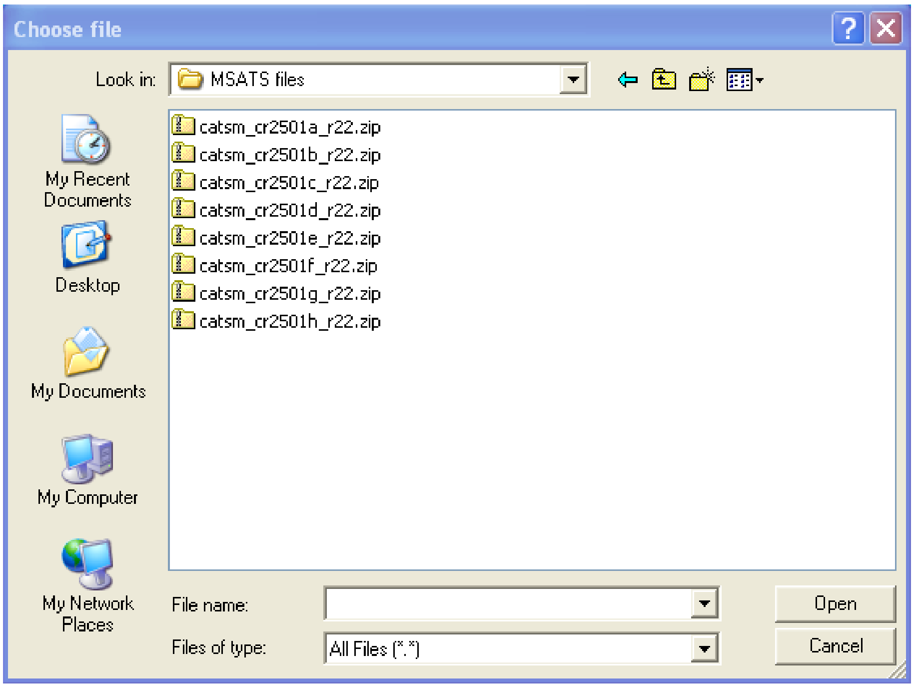
2. On the Participant Inbox - List interface, click Upload in the far right column.



3. The File Upload interface displays, click Browse.



4. Locate your .ZIP file and click Open.



5. The selected file is inserted into the File To Upload field. Click Submit to submit the file for validation.

6. MSATS performs 1st level validation, places the ACK file in your Participant Outbox, and displays the contents on the interface.
   If MSATS is unable to load the data, it displays a code that describes the reason for the failure and an explanation.

7. MSATS provides a Receipt ID for each transaction. If there is only one transaction, it is the same Receipt ID. If there are multiple transactions, the first one has the same Receipt ID as the message Receipt ID and the rest of the transactions have different IDs. The numeric characters at the end of each transaction Receipt ID correspond to the request ID of the change request. This can be used to search for the change request and check the status of the transaction.

8. Check your Participant Outbox to see the uploaded file in the Participant Inbox - List. See Viewing the participant inbox on page 144).
   In each case, the status = "Accept" if it passed the validations or "Reject" if it did not pass the validations. It is possible that the message is accepted but not the transactions. This is the case if, for example, the file is well formed, the header details are correct but the nominated user did not have the rights to perform specific transactions within the transactions element.

```
- <Acknowledgements>
    <MessageAcknowledgement initiatingMessageID="2578 - CR3001" receiptDate="2009-02-02T15:06:41+10:00"
      receiptID="CATS-CR63898997" status="Accept" />
    <TransactionAcknowledgement initiatingTransactionID="2578 - CR3001" receiptDate="2009-02-02T15:06:41+10:00"
      receiptID="CATS-CR63898997" status="Accept" />
  </Acknowledgements>
</ase:aseXML>
```


9. When MSATS completes validation, you receive a response Transaction zip file.
   Occasionally, MSATS cannot process the uploaded file immediately. In this case, the .ZIP file remains in your participant's inbox until it is processed. After processing an .ACK file is placed in your participant inbox confirming the upload. For each accepted transaction, MSATS performs a second set of validations and processes the request.

Figure 15 Change request acknowledgement example.

Inbox Contents			Upload
	File Name	Last Modified	File Size
☐	catsl_energexbatch_229637244.ack	Tue Dec 09 11:20:45 GMT+10:00 2008	871
☐	nmidh_dpid_energexbatch2.zip	Wed Feb 13 08:30:53 GMT+10:00 2008	640
☐	nmidh_dpid_energexbatch3.zip	Wed Feb 13 12:36:45 GMT+10:00 2008	639

Participant outbox

Participant outbox overview

The participant outbox is used by MSATS to place files for transfer to participant systems.

Participant outbox user rights access

Participant Administrators control access to Participant Outbox using the Data Load Import (Participant Inbox & Participant Outbox) entity in the Administration menu in the MSATS Web Portal.

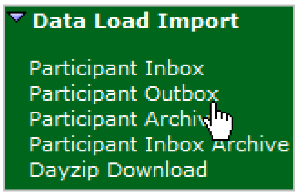
Viewing the Participant Outbox

To view the participant outbox:

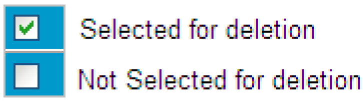
1. On the main menu, click Data Load Import and then click Participant Outbox.

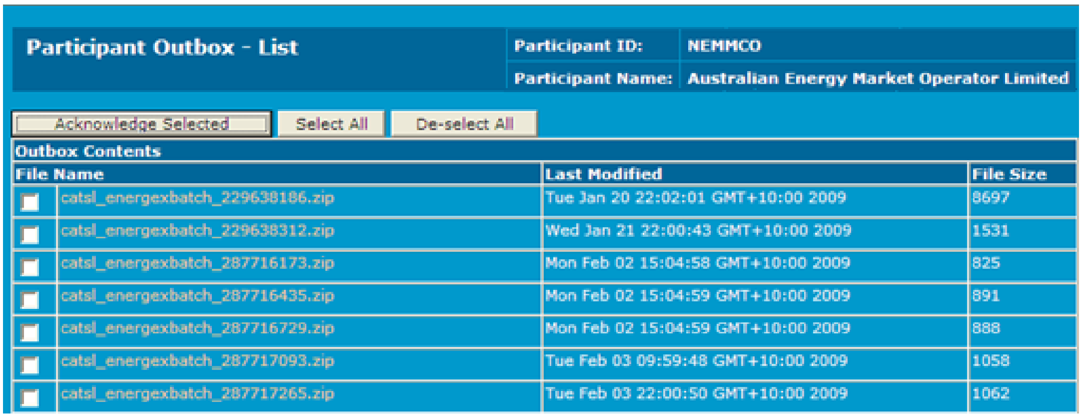
   Note: clicking Mailbox is the same as clicking Participant Outbox from the Data Load Import menu.

2. The Participant Outbox - List displays with the files waiting to be transferred from the MSATS system to a participant system. To acknowledge files, do one of the following:

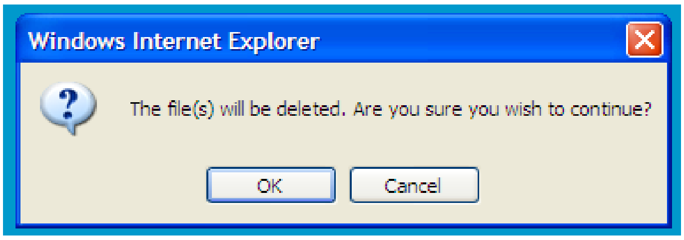
   

   - Click Select All to place a tick next to all File Names and then click Acknowledge Selected.
   - Click De-select All to unselect any File Names with a tick.
   - Select individual File Names and then click Acknowledge Selected.

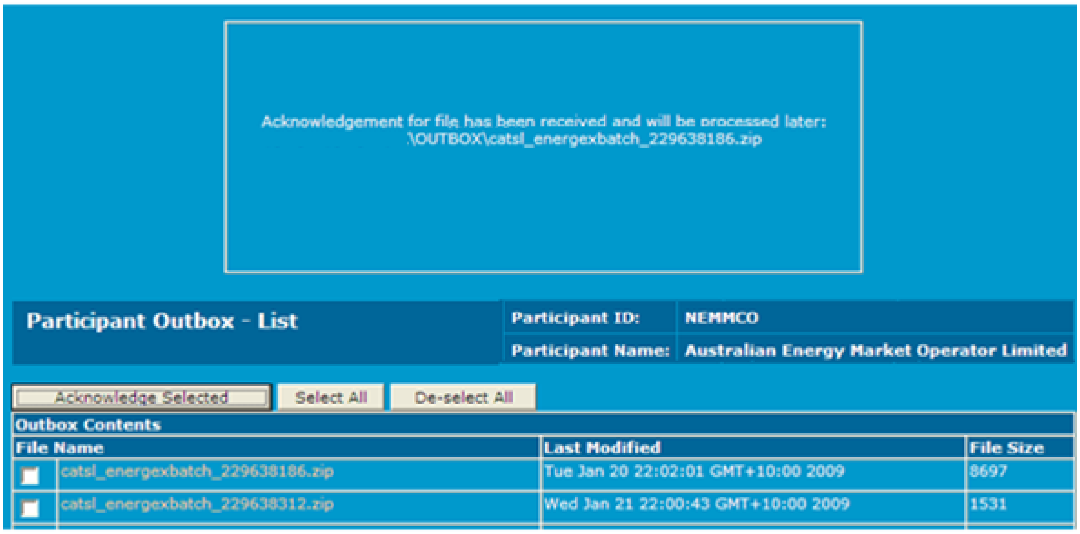
   

3. Files are deleted once they are acknowledged; click OK to confirm the deletion. See **Important Note** below.



4. A confirmation message displays confirming the Acknowledgement.



The files stored in the participant outbox must be acknowledged as soon as possible to ensure they are moved from the participant outbox by MSATS.

When the number of unacknowledged outbound files in the participants outbox (that is, change request responses and notifications from MSATS) reaches a system limit, the batch handler stops generating outbound files. No outbound batch transactions are produced until the files in the participant outbox have been reduced to within the limit.

On occasions when MSATS cannot archive an acknowledged .ZIP file immediately, the following error message displays and the .ZIP file is deleted later.

However, the .ACK file that is created at the same time as the .ZIP file may not be automatically deleted; therefore, it must be done manually. The contents of the .ZIP file must be read and saved prior to acknowledging it.

To do this, confirm the related .ZIP file has been moved by MSATS from the participant inbox, then select the relevant checkbox in the participant inbox for the .ACK file and click Delete Selected.

Viewing a change request response

For each accepted transaction in the .XML file, a change request response (CRR) transaction is generated. By default, each response transaction is in a separate .XML file in a separate .ZIP file. Therefore, if there are multiple transactions in the one batch file, multiple .ZIP files are placed into the participant outbox.

Because the response is sent to the <PARTICIPANTID>batch user ID, only someone logged on to the MSATS web portal with that user ID (or with a right that provides access to all items in the participant’s outbox) can see the response message. That is, the originator of the change request may not necessarily see it.

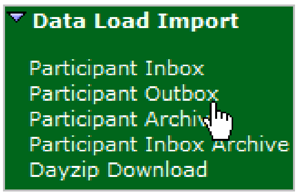
Depending on the notification rules, the <PARTICIPANTID>BATCH user ID and other parties’ equivalent user IDs may also receive notifications to indicate the status of the change request (Administration on page 213).

Participants can request AEMO to ‘bundle’ some types of outbound transactions (contact the AEMO's support hub). ‘Bundling’ is the term used when there are many transactions in a single .XML file. When notifications are bundled, there is no longer a one-to-one relationship between an outbound transaction, message and .ZIP file.

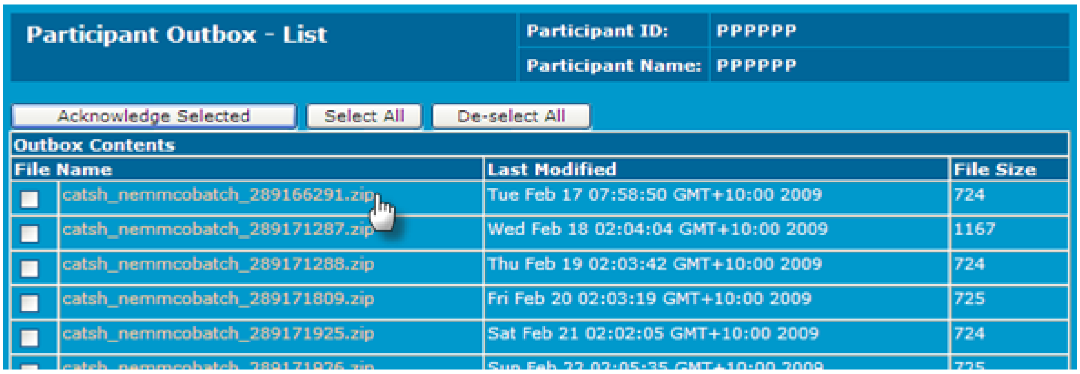
To view a change request response:

1. On the main menu, click Data Load Import and then click Participant Outbox submenu.

   Note: this is the same as clicking the message link on the main menu.

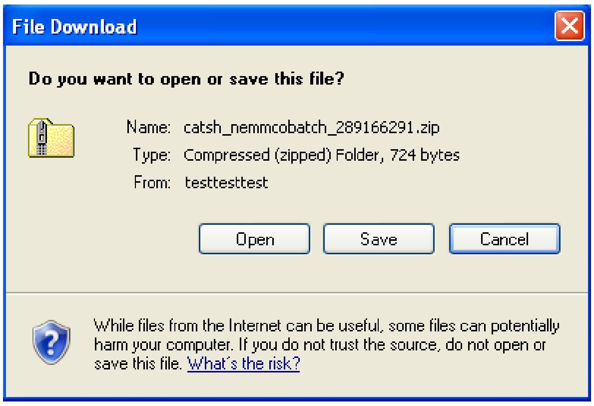


2. The Participant Outbox - List displays, click the File Name.

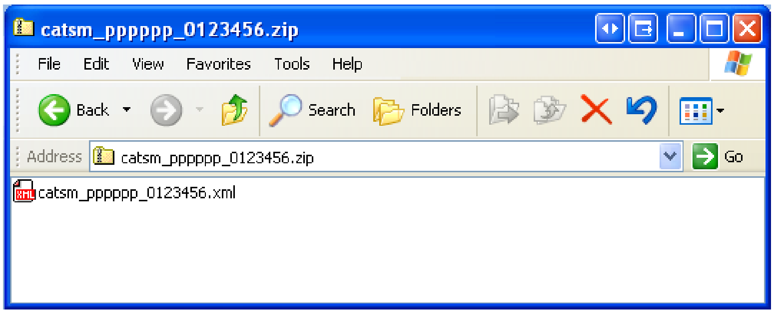


3. Click Open to open the file or Save to save it to a location on your PC.

   Alternatively, click Cancel to return to your Participant Outbox - List.



4. Open the .ZIP file and select the .XML file.



5. The file contents display. Read the message to determine whether the change request is accepted.

    - Accepted change request - the change request response transaction has **Information** written in the <Event severity> element and `0` (zero) in the <Code> element. Therefore, the status is requested (REQ), see Accepted change request example. on the next page.

    - Rejected Change Request - the change request response transaction has an error code in the <Code> element (1199 in the example below) and an <Explanation> element, which is a general error message with, if applicable, specific additional information. In the example, the general part of the error message says the register status does not have a valid value. Therefore, the status is rejected (REJ), see Rejected change request example. on page 155.

    - Notifications - having updated the status of the change request to REQ or REJ, notification messages are sent to the appropriate participants (in the form of .XML files stored within .ZIP files) as per the **Notification Rules** for the change reason code. The participant notified may be the initiator of the change request or other parties for example, parties with a right to object. In some special cases (for example, with streamlined change reason codes), there may be no notifications at all.

If the change request status is REJ, no more processing takes place.

This is an example of a change request response transaction for an accepted change request (such as, one that passed the second level validation).

Figure 16 Accepted change request example.


```
<?xml version="1.0" ?>
- <ase:aseXML xmlns:ase="urn:aseXML:r22" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
   xsi:schemaLocation="urn:aseXML:r22
   http://www.nemmco.com.au/aseXML/schemas/r22/aseXML_r22.xsd">
 - <Header>
     <From description="Australian Energy Market Operator">NEMMCO</From>
     <To description="PPPPPPPP">PPPPPP</To>
     <MessageID>NEMMCO-MSG-289496962</MessageID>
     <MessageDate>2009-03-19T11:48:44+10:00</MessageDate>
     <TransactionGroup>CATS</TransactionGroup>
     <Priority>Medium</Priority>
     <SecurityContext>NEMMCOBATCH</SecurityContext>
     <Market>NEM</Market>
   </Header>
 - <Transactions>
   - <Transaction transactionID="CHRQ-63133546" transactionDate="2009-03-19T11:48:44+10:00"
       initiatingTransactionID="Auto-Test-1903 -4001">
     - <CATSChangeResponse version="r4">
         <RequestID>64621581</RequestID>
       - <Event severity="Information">
           <Code>0</Code>
         </Event>
       </CATSChangeResponse>
     </Transaction>
   </Transactions>
</ase:aseXML>
```


Note: the request ID you use to search for a change request is held in the RequestID field.

This is an example of a change request response transaction for a rejected change request (such as, one that failed the second level validation).

Figure 17 Rejected change request example.


```
<?xml version="1.0" ?>
- <ase:aseXML xmlns:ase="urn:aseXML:r22" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance"
  xsi:schemaLocation="urn:aseXML:r22
  http://www.nemmco.com.au/aseXML/schemas/r22/aseXML_r22.xsd">
  - <Header>
      <From description="Australian Energy Market Operator">NEMMCO</From>
      <To description="PPPPPPPP">PPPPPP</To>
      <MessageID>NEMMCO-MSG-289496965</MessageID>
      <MessageDate>2009-03-19T11:53:09+10:00</MessageDate>
      <TransactionGroup>CATS</TransactionGroup>
      <Priority>Medium</Priority>
      <SecurityContext>NEMMCOBATCH</SecurityContext>
      <Market>NEM</Market>
    </Header>
  - <Transactions>
    - <Transaction transactionID="CHRQ-63133548" transactionDate="2009-03-19T11:53:09+10:00"
        initiatingTransactionID="Auto-Test-1903 -4050">
      - <CATSChangeResponse version="r4">
          <RequestID>64621583</RequestID>
        - <Event>
            <Code>1199</Code>
            <Explanation>BV200_MDM_CATS_Validation.Perform_MDM_CATS_Validations ->
              BV200_MDM_CATS_Validation.Check_Registers -> Request Id: 64621583 NMI:
              NEMMT00032 Register Status must be either C or R. Has a valid Register been
              created for this Meter ?</Explanation>
          </Event>
        </CATSChangeResponse>
      </Transaction>
    </Transactions>
  </ase:aseXML>
```


Participant hub queue

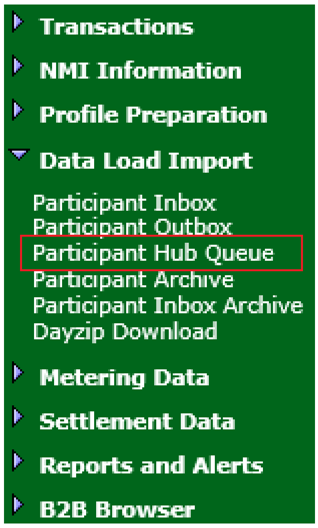
In the Data Load Import > Participant Hub Queue, participants who opt for API PULL as their Transaction delivery protocol can:

- View a total of 100 unacknowledged records.
- Manage messages, including MDMT messages.

Participant hub queue user rights access

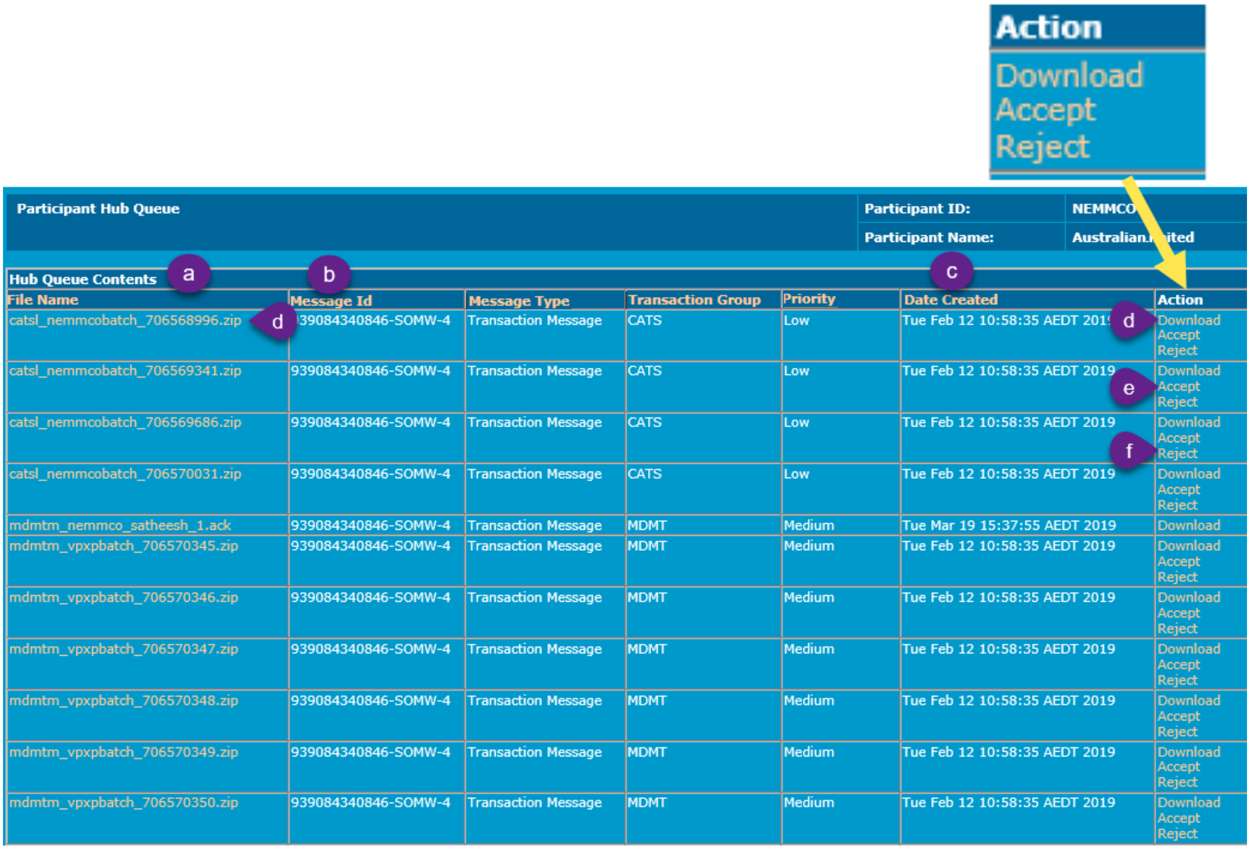
Participant Administrators control access to Participant Inbox using the Data Load Import (Participant Inbox & Participant Outbox) entity in the Administration menu in the MSATS Web Portal.

Viewing the Participant Hub Queue



1. On the main menu, click Data Load Import and then click Participant Hub Queue.
2. The Participant Hub Queue interface displays where you can do the following (see Participant hub queue on the next page:
   a. View the total number of messages queued and ready for pulling from the e-Hub.
   b. Click an orange heading to sort a total of 100 unacknowledged transaction messages.
   c. See the message's age in Date Created.
   d. Download messages: Click the File Name or click Download in the Action column.
   e. Accept messages: Click Accept in the Action column.
   f. Reject messages. Click Reject in the Action column.

Figure 18 Participant hub queue



File Name	Message Id	Message Type	Transaction Group	Priority	Date Created	Action
catsl_nemmcobatch_706568996.zip	939084340846-SOMW-4	Transaction Message	CATS	Low	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
catsl_nemmcobatch_706569341.zip	939084340846-SOMW-4	Transaction Message	CATS	Low	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
catsl_nemmcobatch_706569686.zip	939084340846-SOMW-4	Transaction Message	CATS	Low	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
catsl_nemmcobatch_706570031.zip	939084340846-SOMW-4	Transaction Message	CATS	Low	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_nemmco_satheesh_1.ack	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Mar 19 15:37:55 AEDT 2019	Download
mdmtm_vpxpbatch_706570345.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_vpxpbatch_706570346.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_vpxpbatch_706570347.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_vpxpbatch_706570348.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_vpxpbatch_706570349.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject
mdmtm_vpxpbatch_706570350.zip	939084340846-SOMW-4	Transaction Message	MDMT	Medium	Tue Feb 12 10:58:35 AEDT 2019	Download Accept Reject

Participant archive

Participant archive overview

Files are moved from the Participant Outbox to the Participant Archive folder once the participant has acknowledged the file. Use the Dayzip Download submenu to zip all files in the Participant Archive and save them to your local computer, Dayzip download on page 162.

Participant archive user access rights

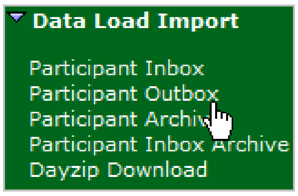
Participant Administrators control access to Participant Archive using the View Participant Archives entity in the Administration menu in the MSATS Web Portal.

For help assigning user access rights, see Guide to User Rights Management.

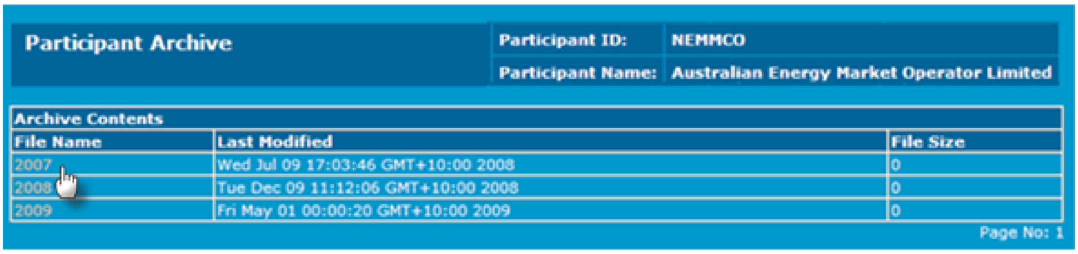
Viewing the participant archive

To view the participant archive:

1. On the main menu, click Data Load Import and then click Participant Archive.



2. The Participant Archive displays. To open the archive file contents, click the File Name link.



3. To view further details, click the File Name link again.

4. The next information level displays, click the remaining File Name links to view all details.

Participant Archive	
Archive\2007\09-sep Contents	
File Name	Last Modified
13	Wed Jul 09 17:03:46 GMT+10:00 2008

Retrieving an archived file

Archived files are read-only. You cannot delete or manipulate them.

To retrieve a file from the Participant Archive:

1. In the web portal > Data Load Import, click Participant Archive.

   The archive year folders display with a folder for each year having archived data (the year a file was acknowledged and deleted, not the year it was created although sometimes they are the same).

   The Last Modified date is the date and time the most recent subfolder for that Year was created (the date the most recent Month folder was created).

2. To find a file to download, click the year.

x:\fs_test\ \Archive Contents		
File Name	Last Modified	File Size
2003	Thu Mar 04 14:04:33 EST 2004	0
2004	Wed Jun 09 09:51:43 EST 2004	0
		Page No: 1

3. A folder for each month displays where the name of the folder is the month number followed by the month abbreviation.

   Keep drilling down through months, days, and time until you come to a folder with zip files.

   Use your browser Back button to navigate back through the folders.

4. To open or save zip files, click on the file hyperlink.

There is no relationship between the day folder and the date of the file name because the Year, Month, Day, and Time folder names are based on the date and time files were deleted and archived. The date and times associated with the files themselves are the date and time the file was created.

x:\fs_test\ \Archive\2004\06-Jun\11\15.26.17 Contents

File Name	Last Modified	File Size
catsm_engyaustbatch_22884057.zip	Sat Jun 05 01:10:54 EST 2004	1129
catsm_engyaustbatch_22884059.zip	Sat Jun 05 01:10:54 EST 2004	1132
catsm_engyaustbatch_22884063.zip	Sat Jun 05 01:10:54 EST 2004	1127
catsm_engyaustbatch_22884065.zip	Sat Jun 05 01:10:54 EST 2004	1133
catsm_engyaustbatch_22884075.zip	Sun Jun 06 17:49:11 EST 2004	1011
catsm_engyaustbatch_22884081.zip	Sun Jun 06 17:57:19 EST 2004	918
catsm_engyaustbatch_22884087.zip	Sun Jun 06 17:57:19 EST 2004	1015
catsm_engyaustbatch_22884093.zip	Sun Jun 06 21:12:31 EST 2004	1007
catsm_engyaustbatch_22884181.zip	Thu Jun 10 16:07:10 EST 2004	1535
catsm_engyaustbatch_22884183.zip	Thu Jun 10 16:07:10 EST 2004	1541
catsm_engyaustbatch_22884187.zip	Thu Jun 10 16:07:10 EST 2004	1533
catsm_engyaustbatch_22884189.zip	Thu Jun 10 16:07:10 EST 2004	1539
catsm_engyaustbatch_22884193.zip	Thu Jun 10 16:07:10 EST 2004	1534
catsm_engyaustbatch_22884195.zip	Thu Jun 10 16:07:10 EST 2004	1539
catsm_engyaustbatch_22884203.zip	Thu Jun 10 16:07:10 EST 2004	912
catsm_engyaustbatch_22884209.zip	Thu Jun 10 16:07:11 EST 2004	912
catsm_engyaustbatch_22884218.zip	Thu Jun 10 16:07:11 EST 2004	913
catsm_engyaustbatch_22884227.zip	Thu Jun 10 16:07:11 EST 2004	1000

Page No: 1

Participant inbox archive

Participant inbox archive overview

The participant inbox archive keeps a history of the .ZIP files submitted by a participant. The structure is similar to the “Participant Archive” folder.

- When a .ZIP file in the participant inbox is acknowledged (ack), or negatively acknowledged (nack), it is archived in the inbox archive folder.

- For B2B files, when the first level acknowledgement (.ac1) takes place in the B2B inbox, the file is archived to the inbox archive folder.

Assigning user access rights

- For Participant User access to the Participant Inbox Archive, participant administrators select the View Participant Inbox Archives entity in the Maintain Rights menu, and assign “Read” rights.

For help assigning user access rights, see Guide to User Rights Management.

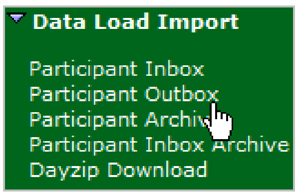
- For Participant User access to the B2B Inbox Archive, participant administrators select the B2B Directory Inbox Archive entity in the Maintain Rights menu, and assign “Read” rights.

Participant inbox archive user rights access

Participant Administrators control access to Participant Inbox Archive using the View Participant Inbox Archives entity in the Administration menu in the MSATS Web Portal.

For Participant User access to the B2B Inbox Archive, Participant Administrators select the B2B Directory Inbox Archive.

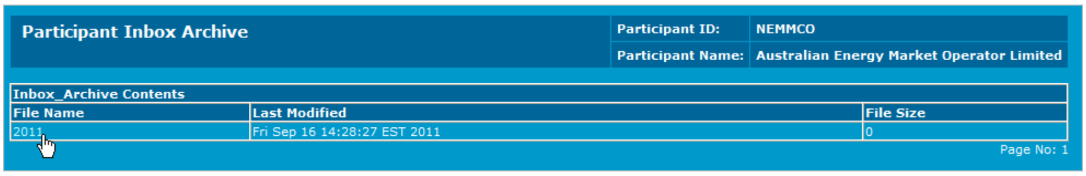
Viewing the participant inbox archive



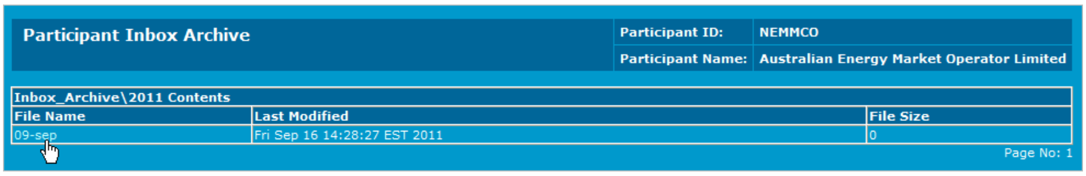
To view the participant inbox archive:

1. On the main menu, click Data Load Import and then click Participant Inbox Archive.

2. The Participant Inbox Archive displays. To open the inbox archive contents, click the File Name link.



3. To view further details, continue to click the File Name until you find the required information.



Dayzip download

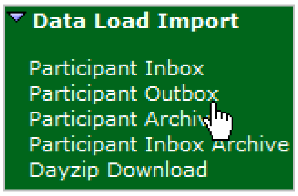
Dayzip download overview

Use the Dayzip Download to zip all files in the Participant Archive and save them to your local computer.

Dayzip download user rights access

Participant Administrators control access to Dayzip Download using the Participant Dayzip Download entity in the Administration menu in the MSATS Web Portal.

Viewing dayzip download

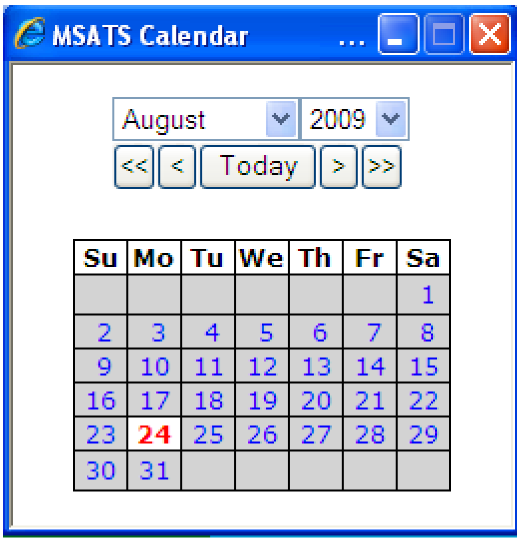


To view the participant dayzip download:

1. On the main menu, click Data Load Import and then click Dayzip Download.
2. The Participant Dayzip Download displays, click the Date Picker icon to view the MSATS Calendar.

3. On the MSATS Calendar, click the download date to select it.

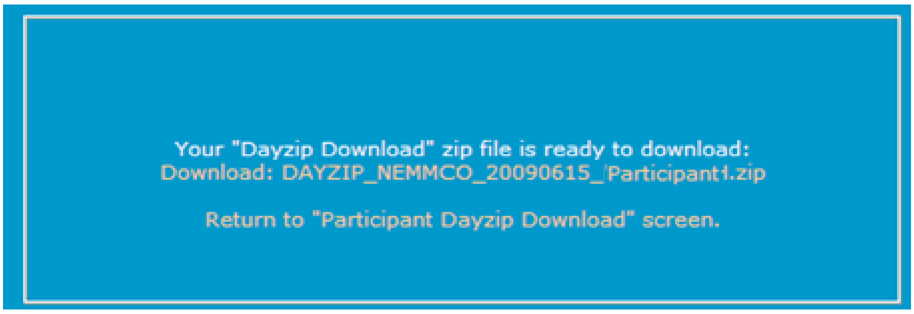
   Alternatively, you can type the date in the Dayzip Date field in dd-mmm-yyyy format, for example, 24-Aug-2009.



4. Click Download.

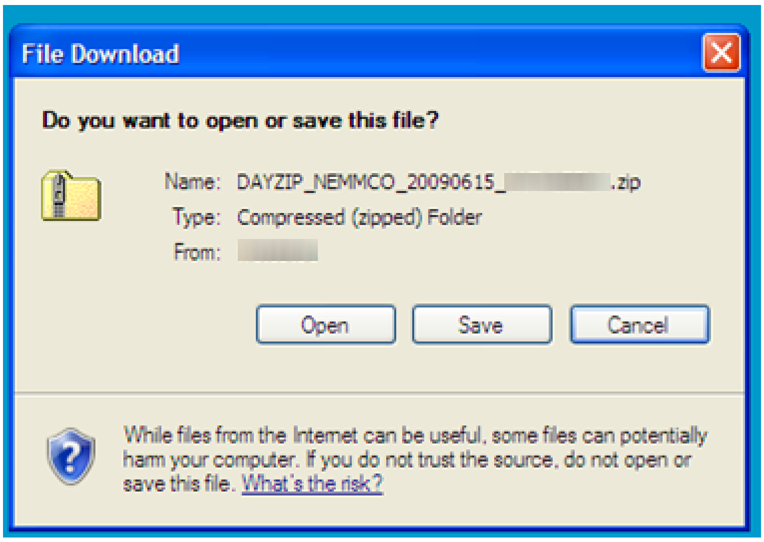
5. A confirmation message displays. Click the Download: DAYZIP_NEMMCO_ <Date>_XXXXXXX.zip.

   Alternatively, click the Return to “Participant Dayzip Download” interface, to return to the Participant Dayzip Download interface.



6. The File Download window displays. Click either Open to open the file or Save to save the file to your local computer

   Alternatively, click Cancel to return to the Participant Dayzip Download interface.



Metering Data

Participants can retrieve Metering Data, in the same interval length, received from Meter Data Providers (MDPs).

About metering data

The Metering Data component of MSATS is used for the receipt, storage, and aggregation of Metering (Datastream) Data required for:

- Profile Preparation Service (PPS) and Basic Meter Profiler (BMP) functionality within MSATS.
- External BMP functionality, where allowed by jurisdictional rules.
- Storage of profile shapes generated both internally and externally.
- Provision of aggregated and non-aggregated data to AEMO for Settlements purposes.

Metering Data user rights access

Participant Administrators control access to Metering Data in the Administration menu in the MSATS Web Portal using the following entities:

Entity	Type	interface
Metering Data	Interactive	MSATS Web Portal > Metering Data
MDM Meter Data	Batch	FTP to Participant File Server Inbox
B2B Directory Inbox	Interactive	MSATS Web Portal > B2B Browser > Upload File

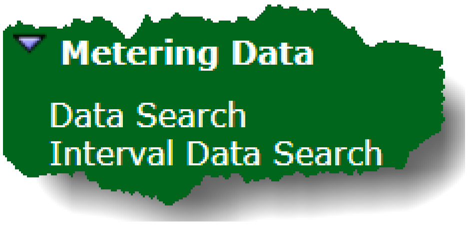
Data search

In the data search you can:

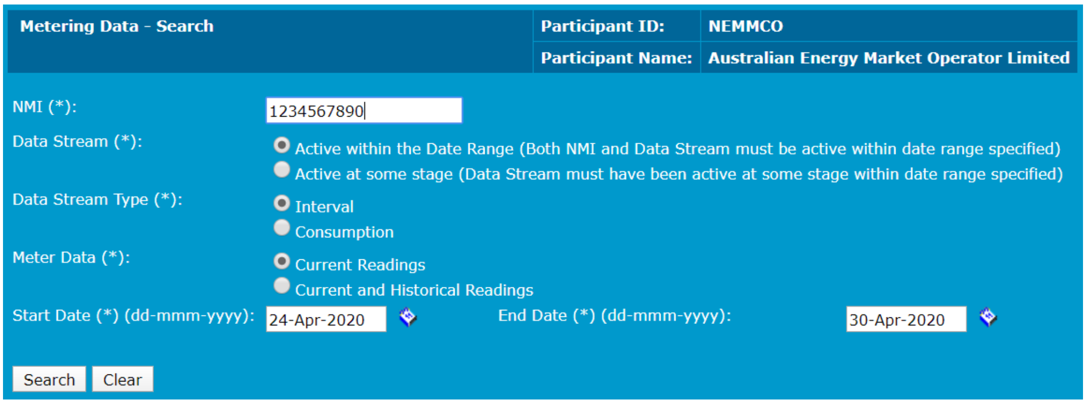
- View different time resolutions: 5-, 15-, and 30-minutes of submitted Metering Data.
- View Interval time.
- View a substitution type column (where applicable).
- View a row per interval per suffix.
- View Metering Data for any suffixes defined in the CNDS table, such as net data (Nx) streams, active (Ex, Bx) or reactive (Kx, Qx) suffixes.
- View an interval value and status per row.
- Query a maximum of seven days of Interval Metering Data and export the results to csv.
- View Metering Data regardless of the format (MDMF or MDFF) from the Initiating participant (see Interval meter data search results on page 168.

Viewing meter data

1. On the main menu, click Metering Data and then click Data Search.



2. The Metering Data - Search displays. Complete all fields marked with an asterisk (*) and click Search. All fields are required. For help understanding the fields, see Data search on the previous page.



3. The Metering Data - Result displays. For help understanding the fields, see Data search on the previous page.

Interval meter data search results

Interval Metering Data results originating from MTRD or MDMT.

Metering Data - Result

Participant ID:		
Participant Name:		Australian Energy Market Operator Limited

1,500 Result(s) Match Search Criteria

Export all results to csv

NMI: FFFDRLK02

Suffix	Settlement Date	Interval Time	Interval Value (kWh for active energy)	Status	Substitution Type	MDP Version Date	Load Date	A/H
N1	14-Aug-2020	00:05:00	111.11	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:10:00	-222.22	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:15:00	333.33	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:20:00	-444.44	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:25:00	555.55	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Interval Metering Data results originating from MTRD

Metering Data - Result

Participant ID:			
Participant Name:		Australian Energy Market Operator Limited	

1,500 Result(s) Match Search Criteria

Export all results to csv

NMI: FFFDRLK02

Suffix	Settlement Date	Interval Time	Interval Value (kWh for active energy)	Status	Substitution Type	MDP Version Date	Load Date	A/H
E1	14-Aug-2020	00:05:00	111.11	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:10:00	222.22	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:15:00	333.33	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:20:00	444.44	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:25:00	555.55	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:30:00	666.66	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:35:00	777.77	S	12	15-Aug-2020 13:20:57	16-Aug-2020 [illegible]:08:34	Active

Accumulation (basic) meter data search results

Consumption Metering Data results originating from MTRD or MDMT.

Metering Data - Result

Participant ID:		NEMMCO	
Participant Name:		Australian Energy Market Operator Limited	

1,500 Result(s) Match Search Criteria

Export all results to csv

NMI: FFFDRLK02

Suffix	From Date	To Date	Value (kWh)	Status	Substitution Type	MDP Version Date	Load Date	A/H
11	14-Aug-2020	26-Aug-2020	111.11	A		16-Aug-2020 09:36:00	28-Aug-2020 09:36:00	Active
11	10-Sep-2020	22-Sep-2020	222.22	A		12-Sep-2020 12:00:00	24-Sep-2020 12:00:00	Active
11	07-Oct-2020	19-Oct-2020	333.33	A		09-Oct-2020 14:24:00	21-Oct-2020 14:24:00	Active
11	03-Nov-2020	15-Nov-2020	444.44	S	12	05-Nov-2020 16:48:00	17-Nov-2020 16:48:00	Active
22	30-Nov-2020	12-Dec-2020	555.55	S	12	02-Dec-2020 19:12:00	14-Dec-2020 19:12:00	Active
22	27-Dec-2020	08-Jan-2021	[illegible]	A		29-D[illegible]2020 21:36:00	[illegible] Jan-2021 21:36:00	[illegible]

Metering data search fields explained

Field	Description
NMI	Enter the unique National Metering Identifier (NMI) for the connection point.
Datastream	Click 'active within the Date Range' to limit the search to Datastreams where the status code is currently A for any of the period between the selected dates. Click 'active at some stage' to include Datastreams in the search that have been active during the Start and End Dates but which are no longer active (that is, Datastreams where the Datastream status code was once A but has since changed to I for some or all of the search period).
Datastream Type	Click Interval if the NMI's Datastreams are of type Interval (48 daily readings) or Consumption if the reading is a single value which represents total consumption since the last read. The Datastream type is Interval if this NMI's Metering installation type is COMMSn, MRIM, UMCP, PROFILE, or SAMPLE. It is Consumption if the Metering installation type is BASIC. Data for all suffixes matching the Datastream type selected are returned.
Meter Data	Click current readings if, in the case where there is more than one reading for a Datastream, only the most recently submitted one displays (for example, an estimated reading may have been replaced by an actual reading). Click current and historical readings if there are prior readings superseded by more recent data.

Field	Description
Start Date	For Interval Datastream types, where each record is for a specific date, this is the first date data was received. For consumption reads, records are selected if either: (i) the date entered falls within the start and end date of the reading. (ii) the date entered is prior to the Start Date of the reading but the End Date entered is after the Start Date of the reading and prior to the End Date of the reading.
End Date	For Interval Datastream types, where each record is for a specific date, this is the last date data was received. For consumption reads, records are selected if either: (i) the date entered falls within the start and end date of the reading. (ii) the date entered is after the end date of the reading but the Start Date entered is after to the Start Date of the reading and prior to the End Date of the reading.

Metering data result fields

Field	Description
Suffix	The MDM Datastream suffix record, as defined for this NMI in the CATS Standing Data.
Settlement Date	The date for the period covered by this read.
MDP Version Date	The date and time stamp the MDP's system assigned to the record. It is the date and time the Metering Data was loaded into the MDP's system.
Load Date	The date and time the Metering Data was loaded into MSATS.
Values	The value of the read in KWh. Depending on the meter register type, this value may be an actual read or the difference between the last meter read time and the previous meter read time.

Field	Description
Status	The status of each reading; the codes and their meanings are: A: actual E: estimated S: substituted data F: substitutions that are considered final (that is, not to be replaced by actual data)
A/H	A - indicates this is the current record for this period H - indicates this is a history record (another more recent record has replaced it)

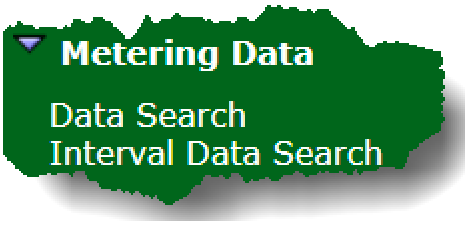
Interval metering data search

In the Interval Metering Data Search interface, you can:

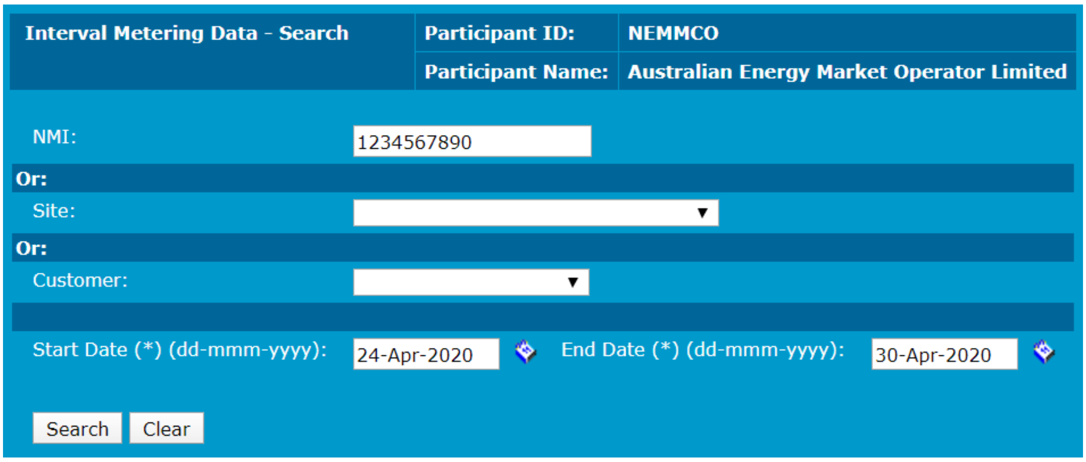
- Query a maximum of seven days of interval Metering Data.
- Query a maximum of 12 months of consumption Metering Data.
- Display Metering Data in the resolution it was delivered (5-, 15-, 30-minute)
- Export the query results to csv.
- Restructure query results to support readability.
- View Metering Data for any suffixes defined in the CNDS table, such as net data (Nx) streams, active (Ex, Bx) or reactive (Kx, Qx) suffixes.
- View Metering Data sent to AEMO from the initiating participant in MDMF or MDFF format.

Viewing interval meter data

1. On the main menu, click Metering Data and then click Interval Data Search.

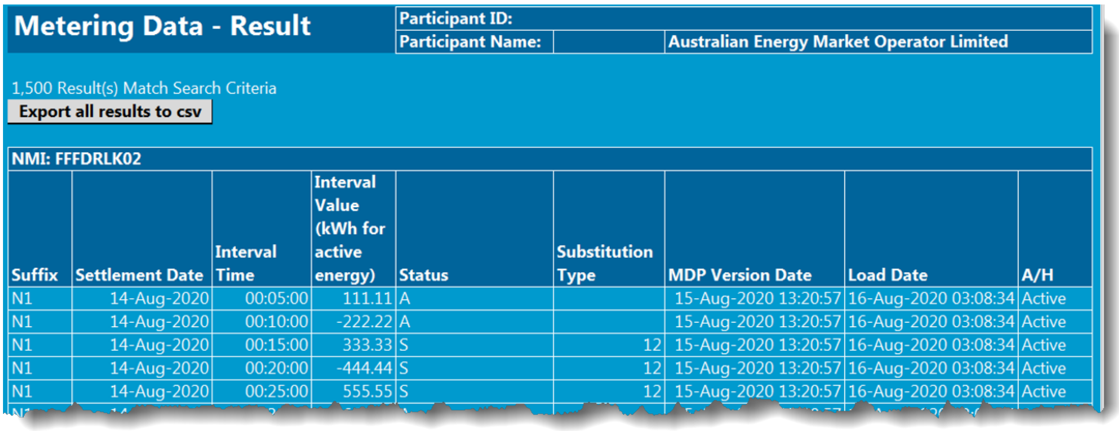


2. The Interval Metering Data - Search displays. Complete all fields marked with an asterisk (*) and click Search. All fields are required. For help understanding the fields, see Interval Metering data search fields explained on page 175.



3. The Metering Data - Result displays. For help understanding the fields, see Interval metering data search on the previous page.

Interval Metering data results from MTRD or MDMT



Metering Data - Result

Participant ID:		
Participant Name:		Australian Energy Market Operator Limited

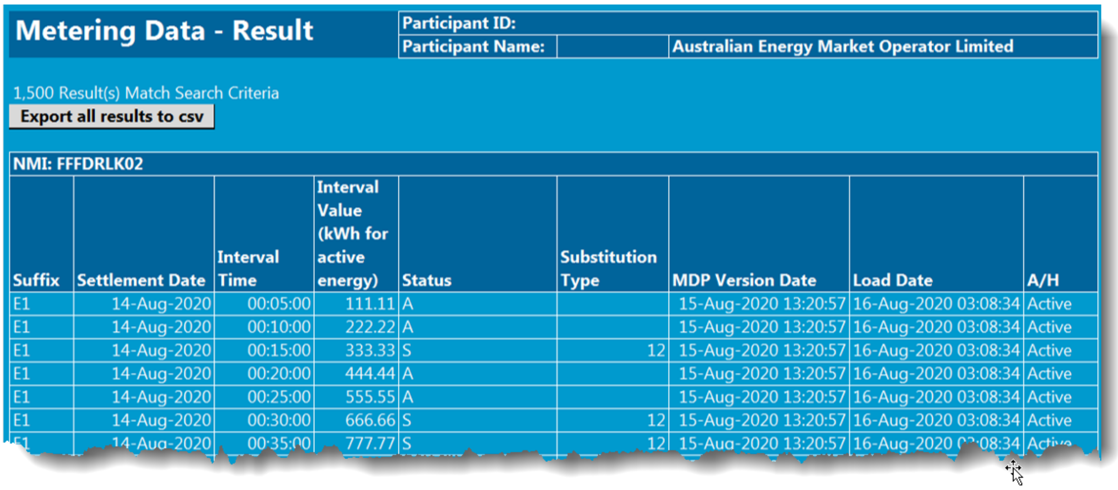
1,500 Result(s) Match Search Criteria

Export all results to csv

NMI: FFFDRLK02

Suffix	Settlement Date	Interval Time	Interval Value (kWh for active energy)	Status	Substitution Type	MDP Version Date	Load Date	A/H
N1	14-Aug-2020	00:05:00	111.11	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:10:00	-222.22	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:15:00	333.33	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:20:00	-444.44	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N1	14-Aug-2020	00:25:00	555.55	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Interval Metering data results from MTRD



Metering Data - Result

Participant ID:		
Participant Name:		Australian Energy Market Operator Limited

1,500 Result(s) Match Search Criteria

Export all results to csv

NMI: FFFDRLK02

Suffix	Settlement Date	Interval Time	Interval Value (kWh for active energy)	Status	Substitution Type	MDP Version Date	Load Date	A/H
E1	14-Aug-2020	00:05:00	111.11	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:10:00	222.22	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:15:00	333.33	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:20:00	444.44	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:25:00	555.55	A		15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:30:00	666.66	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:35:00	777.77	S	12	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Interval Metering data search fields explained

Field	Description
NMI	Enter the unique NMI for the connection point.
Site	Enter the physical location of the connection point
Customer	Select the end user
Start Date	The first date data was received
End Date	The last date for data was received

Interval Metering data result fields explained

Field	Description
Suffix	The MDM Datastream suffix record, as defined for this NMI in the CATS Standing Data.
Settlement Date	The date for the period covered by this read.
Interval Time	The 5-minute interval reading
Interval Value	The value of the read in KWh. Depending on the meter register type, this value may be an actual read or the difference between the last meter read time and the previous meter read time.

Field	Description
Status	The status of each reading; the codes and their meanings are: A: actual E: estimated S: substituted data F: substitutions that are considered final (that is, not to be replaced by actual data)
Substitution Type	The substitution type dervived from the NEM12 or NEM13 method flag.
MDP Version Date	The date and time stamp the MDP's system assigned to the record. It is the date and time the Metering Data was loaded into the MDP's system.
Load Date	The date and time the Metering Data was loaded into MSATS.
A/H	A - indicates this is the current record for this period H - indicates this is a history record (another more recent record has replaced it)

Interpreting retrieved results for interval meters

Metering Data is retrieved based on the Datastream suffixes defined in the CNDS table, for example, net (Nx) or register level suffixes (Ex, Bx, Kx, Qx, and so on).

The following scenarios define which Interval Metering Data is retrieved based on:

1. If the MDM stored Metering Data was received as an MDMT or MTRD Transaction.
2. If the Datastream defined in the CNDS table is a net or register level.

MDM stored Metering data received as an MDMT transaction

The Datastream defined in the CNDS table is a net.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP version date
N1	MDMF	N1	n/a	n/a	15-Aug-2020 13:20:57

As a read exists in the MDM database with a NMI Suffix equal to the CNDS Suffix, this read is retrieved.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
N1	14-Aug-2020	00:30:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

MDM stored Metering data received as an MTRD transaction

The Transaction contained a single E1 Metering read. The Datastream defined the CNDS table is a register level with both the E1 defined.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP Version Date
E1	MDFF	E1	N1	E1	15-Aug-2020 13:20:57

As an E1 read exists in the MDM database with a NMI Suffix equal to the CNDS Suffix, this read is retrieved.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

MDM stored Metering data received as an MTRD transaction

The Transaction contains reads for E1, B1, E2 and a B2. With the exception of the B2 these registers are defined in the NEM12 file's NMIConfiguration string 'B1E1E2'. The Datastreams defined in the CNDS table are a net level N1 and N2.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP version date
N1	MDFF	E1	N1	B1E1E2	15-Aug-2020 13:20:57
N1	MDFF	B1	N1	B1E1E2	15-Aug-2020 13:20:57
N2	MDFF	E2	N2	B1E1E2	15-Aug-2020 13:20:57
N2	MDFF	B2	N2	B1E1E2	15-Aug-2020 13:20:57

As a read exists in the MDM database with a MDMDataStreamIdentifier equal to the CNDS Suffix, the reads listed in NMIConfiguration are retrieved. As the NMIConfiguration of N2 contains only E2, the B2 read is not retrieved.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
B1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E2	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

MDM stored Metering data received as an MTRD transaction

The Datastream defined in the CNDS table is a net with Reactive Energy (Kx and Qx) also defined.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP version date

E1	MDFF	E1	N1	E1K1Q1	15-Aug-2020 13:20:57
K1	MDFF	K1	N1	E1K1Q1	15-Aug-2020 13:20:57
Q1	MDFF	Q1	N1	E1K1Q1	15-Aug-2020 13:20:57

As an Active Energy read exists in the MDM database with a NMI Suffix equal to the CNDS Suffix and a Reactive Energy read exists in the MDM database with a NMI Suffix equal to the CNDS Suffix, these reads are retrieved.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
K1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
Q2	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

MDM stored Metering data received as an MTRD transaction

The Datastream defined the CNDS table is a net with Reactive Energy (Kx and Qx) also defined.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP version date
N1	MDFF	E1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1	MDFF	B1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1	MDFF	K1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1	MDFF	Q1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N2	MDFF	E2	N2	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N2	MDFF	B2	N2	E1B1K1Q1E2B2	15-Aug-2020 13:20:57

As a read exists in the MDM database with an MDMDataStreamIdentifier equal to the CNDS Suffix, the reads listed in the NMIConfiguration are retrieved. As Reactive Energy reads exists in the MDM database with a NMI Suffix equal to the CNDS Suffix, these reads are retrieved.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
B1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
B2	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E2	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
K1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
Q2	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

MDM stored Metering data received as an MTRD transaction

The Datastream defined the CNDS table was a net but is now defined at a register level for the E1, B1, K1 and Q1 Datastreams only. The N2 Datastream is set to inactive with no defined replacement register level (E2, B2) CNDS.

Standing data	Stored read				
CNDS suffix	CSV format	NMISuffix	MDMDataStreamIdentifier	NMIConfiguration	MDP version date
N1 (inactive) E1 (active)	MDFF	E1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1 (inactive) B1 (active)	MDFF	B1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N2 (inactive)	MDFF	E2	N2	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N2 (inactive)	MDFF	B2	N2	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1 (inactive) K1 (active)	MDFF	K1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57
N1 (inactive) Q1 (active)	MDFF	Q1	N1	E1B1K1Q1E2B2	15-Aug-2020 13:20:57

Retrieve all reads Active within the date range.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
B1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
K1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
N2	14-Aug-2020	00:05:00	111.11	I	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
Q1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Retrieve all reads Active at some stage.

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
B1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
E1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Suffix	Settlement date	Interval time	Interval value (kWh for active energy)	Status	MDP version date	Load date	A/H
K1	14-Aug-2020	00:05:00	-222.22	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active
Q1	14-Aug-2020	00:05:00	111.11	A	15-Aug-2020 13:20:57	16-Aug-2020 03:08:34	Active

Interpreting interval time

For a 5-minute Interval meter, for each Settlement date there are 288 readings. The first interval starts at midnight 00:00:00 and ends at 00:05:00 (see .5-minute interval time on the next page).

For a 30-minute Interval meter, for each Settlement date there are 48 readings. The first interval starts at midnight 00:00:00 and ends at 00:30:00 (see 30-minute interval time on page 190).

The same principle applies for a 15-minute Interval meter, for each Settlement date there will be 96 readings, with the first interval starting at midnight 00:00:00 and ending at 00:15:00.

The NMI for these examples is : FFFDRLK02.

Table 15 5-minute interval time

suffix	SettlementDate	intervalTime	intervalValue	status	substitutionType	MDPVersionDate	loadDate	recStatus
N1	2019-10-03	00:05:00	222.22	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:10:00	333.33	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:15:00	444.44	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:20:00	555.55	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:25:00	666.66	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:30:00	777.77	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active

suffix	SettlementDate	intervalTime	intervalValue	status	substitutionType	MDPVersionDate	loadDate	recStatus
N1	2019-10-03	00:35:00	888.88	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:40:00	999.99	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:45:00	111.11	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:50:00	222.22	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	00:55:00	333.33	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	01:00:00	444.44	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active

Table 16 30-minute interval time

suffix	SettlementDate	intervalTime	intervalValue	status	substitutionType	MDPVersionDate	loadDate	recStatus
N1	2019-10-03	00:30:00	111.11	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	01:00:00	222.22	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	01:30:00	333.33	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	02:00:00	444.44	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	02:30:00	555.55	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	03:00:00	666.66	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active

suffix	SettlementDate	intervalTime	intervalValue	status	substitutionType	MDPVersionDate	loadDate	recStatus
N1	2019-10-03	03:30:00	777.77	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	04:00:00	888.88	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	04:30:00	999.99	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active
N1	2019-10-03	05:00:00	111.11	A		2019-10-03 13:20:57	2020-01-30 09:58:42.046	Active

Settlement Data

About settlement data

In the Settlement Data menu, authorised Participant Users can view the Settlement runs for each statement type.

Only authorised Participant Users can view Settlement data.

Settlement scenarios

About settlement scenarios

EMDM processes four basic types of Settlement Scenarios, these are:

1. Preliminary (trading week + 5 business days).
2. Final (trading week plus 18 business days).
3. Revision 1 (trading week + approximately 20 weeks).

4. Revision 2 (trading week + approximately 30 weeks).
5. Special revised.

Special Settlement scenarios

If AEMO determines a special revised Settlement statement is required, a Special Settlement Scenarios is run (for example, as per clause 3.15.19 of the NER).

Settlement type parameters

A scenario defines the basic parameters for that Settlements type such as the length of time either side of the Settlement period to freeze the profile. The input parameters of a scenario include:

1. Scenario Name
2. Scenario Type (as above)
3. Profile freeze cut-off period, defining the period when the system freezes the Net System Load Profile (NSLP), currently 15 weeks.

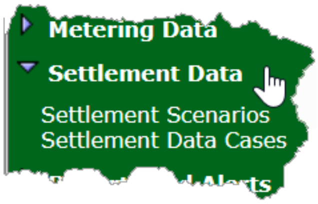
Settlement scenarios user rights access

Participant Administrators control access to Settlement Scenarios using the Settlement Scenarios entity in the Administration menu in the MSATS Web Portal.

Viewing settlement scenarios

To view Settlement Scenarios:

1. On the main menu, click Settlement Data and then click Settlement Scenarios.



2. The Settlement Data Scenarios display. For help understanding the fields, see Settlement scenario fields on page 196.
3. Click a column headings to sort by ascending or descending order.
4. In the Action column, do one of the following:
   - Click View to see further Settlement data scenario details.
   - Click Cases to see uncommitted data case information (this action becomes active when cases have been run against a scenario). To learn more, see Settlement scenarios on page 192.

Figure 19 Settlement scenarios

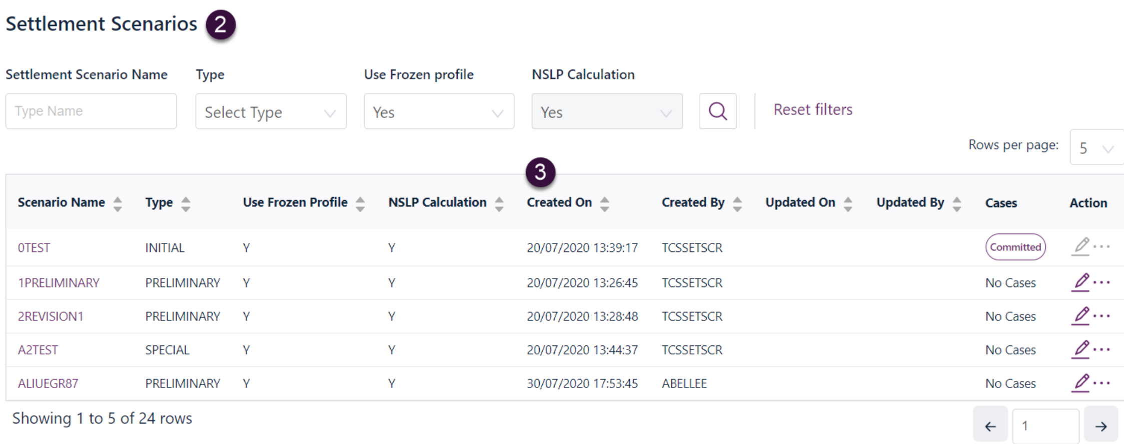
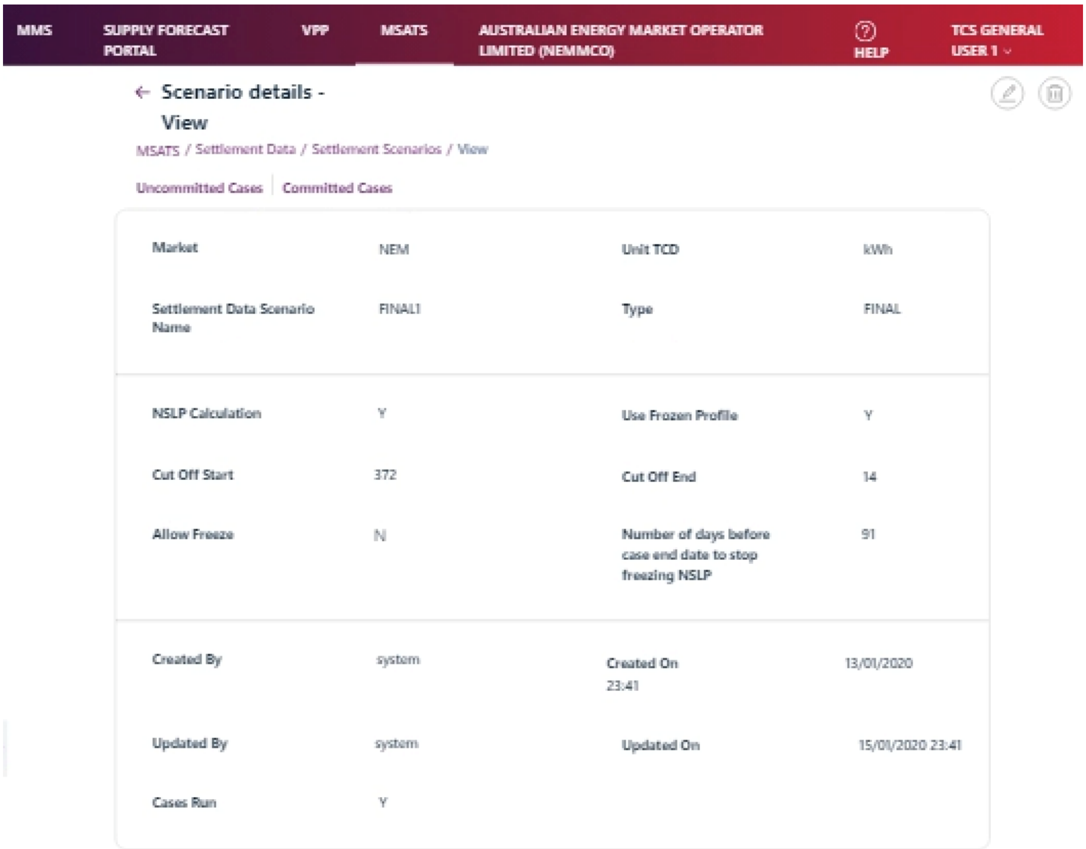


Figure 20 Scenario details - view



- Click Settlement Scenarios to return to the Settlement Data Scenarios - List.

Settlement scenario search

To search for a particular scenario:

1. Follow the steps for Viewing settlement scenarios on the previous page.
2. In the Settlement Scenarios interface, enter any or none of the following fields and click the search icon:
   a. Scenario Name
   b. Type: Settlement type (see About settlement scenarios on page 192)
   c. Use Frozen Profile (default = yes)
   d. NSLP Calculation (default = yes).

Table 17 Settlement scenario fields

Column name	Description
Scenario Name	A unique identifier for the Settlement scenario
Type	The type of scenario e.g. preliminary, final, revision 1, revision 2
Use frozen NSLP profile	If this value is Y, then the NSLP is not calculated for the period where the profile has been locked. If this is N, the NSLP is always calculated.
NSLP Calculation	Whether the NSLP is calculated in this Settlement data scenario. Y = calculated, N = not calculated.
Updated on	The last date the Settlement data scenario record was modified.
Updated by	The Participant User ID of the operator who last modified the Settlement data scenario record.
Start freezing NSLP days	Number of days before the case end data to start freezing the profile (may be a negative number)
Stop freezing NSLP days.	Number of days before the case end data to stop freezing the profile (may be a negative number)

Reports and Alerts

About reports and alerts

The Reports menu provides access for both CATS (Consumer Administration and Transfer Solution) and MDM (Metering Data Management) reports. The report information available depends on your MSATS Role, your access rights, and the jurisdiction where the relating NMI resides.

Reports are in XML format, delivered in a .ZIP file and retrieved from the Participant Outbox; they are not displayed directly on the interface. Reports must be acknowledged as soon as possible to ensure they are removed from the participant outbox (Data Load Import on page 143).

Almost immediately after a file is acknowledged, MSATS moves it from the Participant Outbox to an archive folder where it remains for some time. If you accidentally acknowledge a report before saving it, you can try retrieving it from the archive folder, Data Load Import on page 143.

For details about the aseXML report format, see Guidelines for Development of A Standard for Energy Transactions in XML (aseXML).

Batch reports

Batch reports are requested using FTP to the Participant File Server and use the following entities for Participant User access:

- All CATS Batch reports: CATS Reports Batch.
- All MDM Batch reports: MDM Reports Batch.
- Individual Batch reports: See the user rights entity in each individual report.

For help assigning user access rights, see Guide to User Rights Management.

Interactive reports

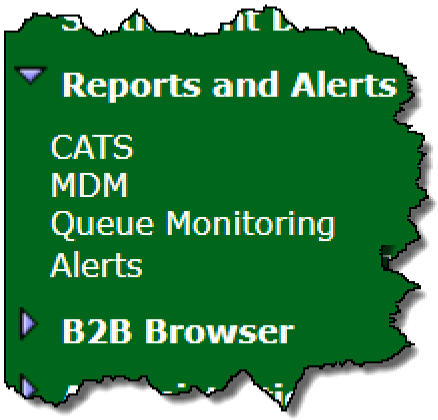
Interactive reports are reports requested from the MSATS or API portals and use the following entities for Participant User access:

- All CATS Interactive reports: CATS Reports.
- All MDM Interactive reports: MDM Reports.
- Individual Interactive reports: See the user rights entity in each individual report.

Viewing and requesting CATS reports

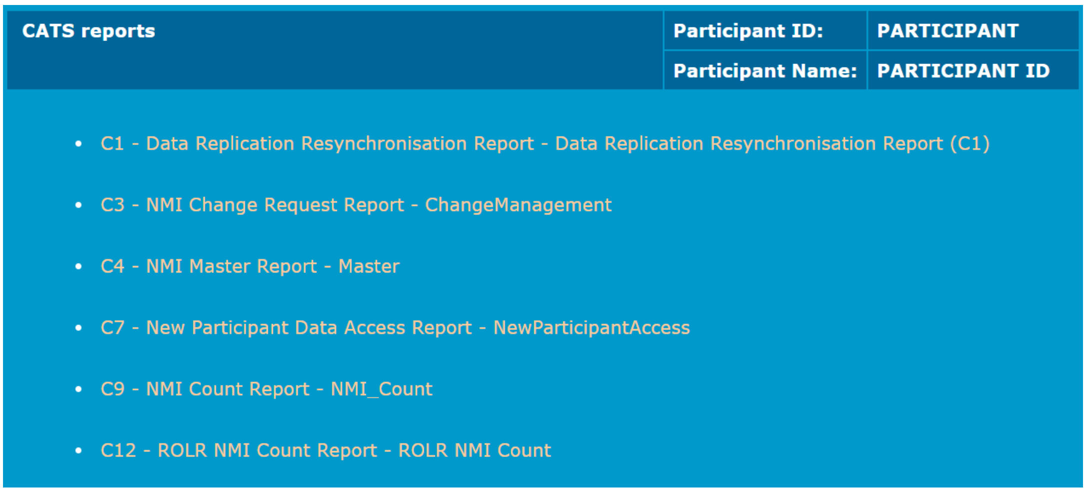
To view CATS reports:

1. On the main menu, click Reports and then click CATS.



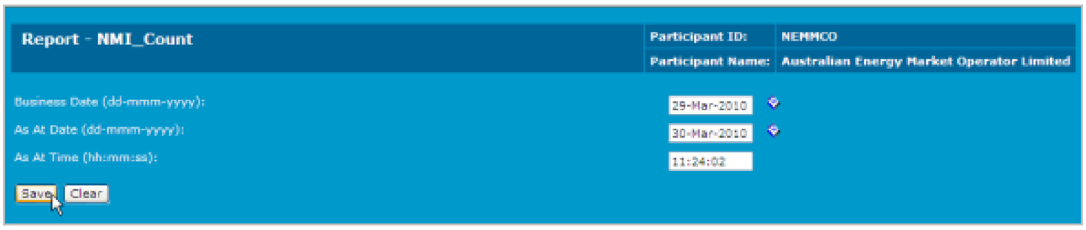
2. The CATS reports display, for an explanation of the report types, see Guide to MSATS Reports.

   Note: the reports displayed below are an example only; depending on your assigned Role, you may not see all the reports listed below. If you require access to a report and it is not in your list, see your participant administrator.



3. To request a report, click the report name. Each report requires you to enter different parameters for the information you require. The example below displays the C9 - NMI Count Report parameters.

4. Enter your parameters and click Save.



5. Confirmation of your request displays with your request ID. The report is produced as an aseXML compliant .XML file and delivered to your participant outbox in a .ZIP file.

6. Retrieve the report from your Participant Outbox (Viewing the Participant Outbox on page 149).

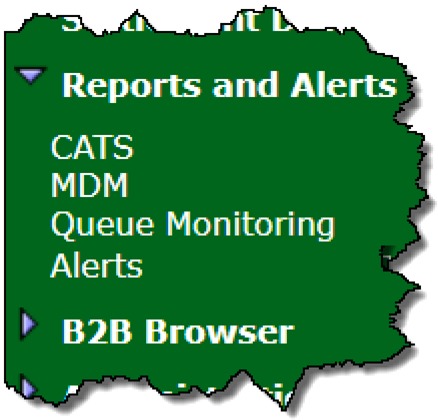
The request ID provided does not match the .ZIP file in your participant outbox because the report was requested using the MSATS web portal. The request ID matches a value inside the report. To determine the correct report, see the date and time stamp.

MDM reports

Viewing MDM reports

To view the MDM reports:

1. On the main menu, click Reports and then click MDM.



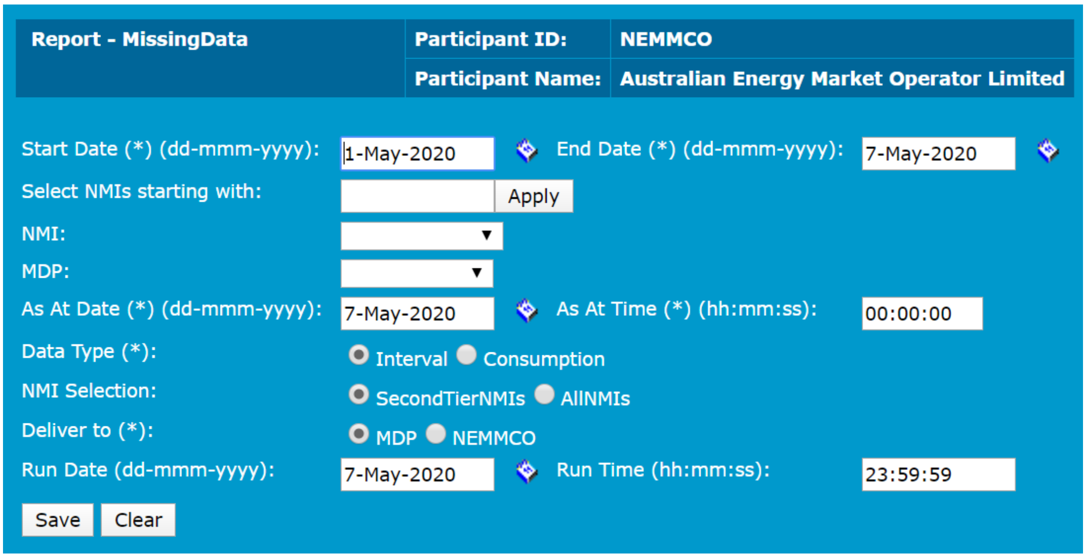
2. The MDM Reports display, for an explanation of the report types, see Table 1.

   The reports listed in MDM report types on the next page are an example only. You may see different reports depending on your assigned Role or access rights. If you require access to a report and it is not in your list, see your participant administrator.

Figure 21 MDM report types

3. To request a report, click the report name. Each report requires you to enter different parameters for the information you require. The example below displays the RM8 - Date BMP PPS Generated Report.

4. Enter your parameters and click Save.



5. Confirmation of your request displays with your request ID. The report is produced as an aseXML compliant .XML file and delivered to your participant outbox in a .ZIP file.

6. Retrieve the report from your outbox (see Data Load Import on page 143).

The request ID provided does not match the .ZIP file in your Participant Outbox because the report was requested using the MSATS web portal. The request ID matches a value inside the report. To determine the correct report, see the date and time stamp.

Requesting an MDMT report

To request an MDMT report, the participant's system must generate a request that conforms to the applicable aseXML Schema.

Participants zip the aseXML document and upload it into MDM using the MSATS Browser interface. Place the file into your Participant Inbox on the Participant File Server or send it as an aseXML Payload using AEMO’s Market facing e-Hub APIs.

Participants request reports using the following methods:

1. An MDMT Report Request transaction from the MSATS Web Portal > Reports and Alerts > MDM menu. For help, see Guide to MSATS Web Portal. The report request is for either:
   a. Immediate compilation and delivery.
   b. Scheduled to run as a one-off with an option to specify a run date and time.
2. Using FTP to the Participant File Server. Participants place the MDMT report message directly into their Participant Directory Inbox. The report request is for immediate compilation and delivery.
3. Using an API to AEMO’s e-Hub. Participants place the MDMT report messages using the B2M e-Hub Asynchronous Push-Push or Push-Pull APIs. For help, see Guide to B2M Retail APIs. The report request is for immediate compilation and delivery.

The aseXML document has the following three sections.

1 Schema information

Details the aseXML schema version information and cannot be modified unless AEMO releases an update.

See Example RM11 Missing Data report on page 206

2 Header information

Contains information about the participant submitting the file, its destination, and the MDM reporting transaction group, MDMT.

An aseXML file with the Transaction Group of MDMT:

- Supports transactions of the type Meter Data Notification, Meter Data Response, Report Request, Report Response.
- Supports MDMT Report Request transactions for multiple RM report types.
- Cannot have both MDMT Meter Data Notifications and Report Request transactions.
- Cannot have transactions belonging to other Transaction Groups (for example, CATS reports types).

The format is important when creating your aseXML file. If a field entry is entered incorrectly, for example, not capitals when it should be, MDM may reject the file.

3 Transaction information

Contains transaction-specific information such as, the report type and report parameters.

Below is an example of an aseXML file for an RM11 Missing Data report. The Payload shows the structure of a transaction containing report parameters. This example uses schema version r31.

Figure 22 Example RM11 Missing Data report

1

2

3


```xml
<?xml version="1.0" ?>
<ase:aseXML xmlns:ase="urn:aseXML:r31" xmlns:xsi="
http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:aseXML:r31
http://www.nemmco.com.au/aseXML/schemas/r31/aseXML_r31.xsd">
  <Header>
    <From>PART1234</From>
    <To description="Australian Energy Market Operator Limited">NEMMCO</To>
    <MessageID>NEMMCO-MSG-608170170</MessageID>
    <MessageDate>2017-03-01T13:33:56+10:00</MessageDate>
    <TransactionGroup>MDMT</TransactionGroup>
    <Priority>Medium</Priority>
    <SecurityContext>PART1234</SecurityContext>
    <Market>NEM</Market>
  </Header>
  <Transactions>
    <Transaction transactionID="MDMT-608170170" transactionDate=
    "2017-03-01T13:33:56+10:00" initiatingTransactionID="22816831">
      <ReportRequest version="r10">
        <ReportParameters xsi:type="ase:MDMTMissingDataReportParameters">
          <ReportName>MissingData</ReportName>
          <FromDate>2010-10-26</FromDate>
          <ToDate>2010-11-01</ToDate>
          <AsAtDate>2017-03-01T00:00:00+10:00</AsAtDate>
          <LastSequenceNumber>0</LastSequenceNumber>
          <MDP>PART1234</MDP>
          <DataType>Consumption</DataType>
          <NMISelection>AllNMIs</NMISelection>
        </ReportParameters>
      </ReportRequest>
    </Transaction>
  </Transactions>
</ase:aseXML>
```


Batch reports

Batch reports are requested using FTP to the Participant File Server and use the following entities for Participant User access:

- All CATS Batch reports: CATS Reports Batch.
- All MDM Batch reports: MDM Reports Batch.
- Individual Batch reports: See the user rights entity in each individual report.

For help assigning user access rights, see Guide to User Rights Management.

Interactive reports

Interactive reports are reports requested from the MSATS or API portals and use the following entities for Participant User access:

- All CATS Interactive reports: CATS Reports.
- All MDM Interactive reports: MDM Reports.
- Individual Interactive reports: See the user rights entity in each individual report.

Queue monitoring

Using the Queue Monitoring menu participants can manage their message flow control for messages submitted by B2M APIs or to their Participant ID or group B2M Inbox in the Participant File Server.

You can:

- View your limits for the accumulation of change request response and notification messages.
- Monitor how many transactions are currently queued.
- View a count of pending CATS and MDM reports.
- View the upper and lower allocated report limit.

Stop files

The purpose is to provide sufficient information to allow participants to manage the submission and receipt of MSATS files so the application of stop files is avoided.

A stop file is created when the number of files within a queue exceeds the Upper or Lower Limit. Once imposed no more processing on inbound transactions can occur until the number of files falls below the Lower Limit. Where a participant belongs to a group, the limits apply to the group not to the individual.

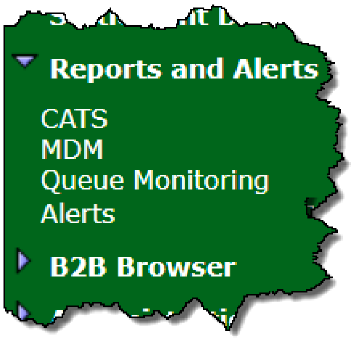
Increasing the upper limit

To increase the allowed Upper Limit for queues, in the relevant queue interface, click Increaseto increase the Upper Limit to the maximum allowed. Calculated by multiplying the Lower Limit by the maximum increase factor.

Queue monitoring user rights access

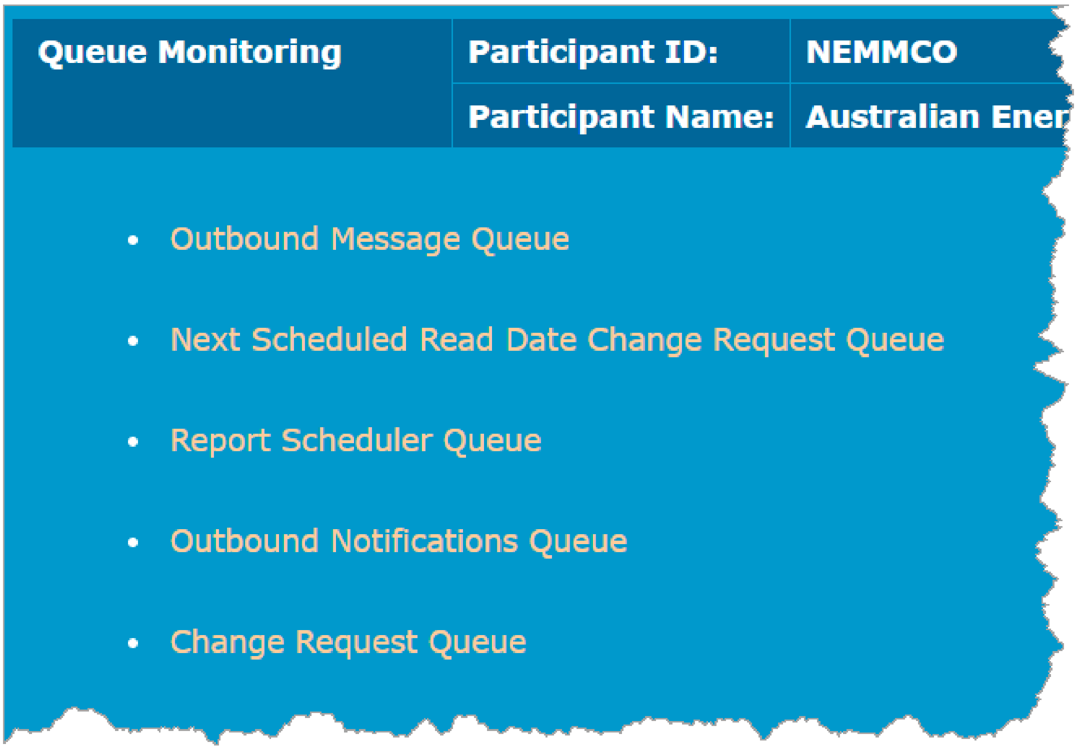
Participant Administrators control access to Queue Monitoring using the Participant Queue Monitoring entity in the Administration menu in the MSATS Web Portal.

Viewing queue monitoring



To view queue monitoring:

1. On the main menu, click Reports and then click Queue Monitoring.
2. The Queue Monitoring interface displays with the following queues:
   a. Outbound Message Queue
      The daily count of unacknowledged Participant Hub Queue and Participant File Folder Outbox messages.
   b. Next Scheduled Read Date Change Request Queue
      The daily count of CATS Change Requests with the Change Reason Code 5071.
   c. Report Scheduler Queue
      The daily count of unprocessed reports.
   d. Outbound Notifications Queue
      The daily estimate of CATS Change Request Notifications.
   e. Change Request Queue
      The daily estimate of CATS Change Requests.

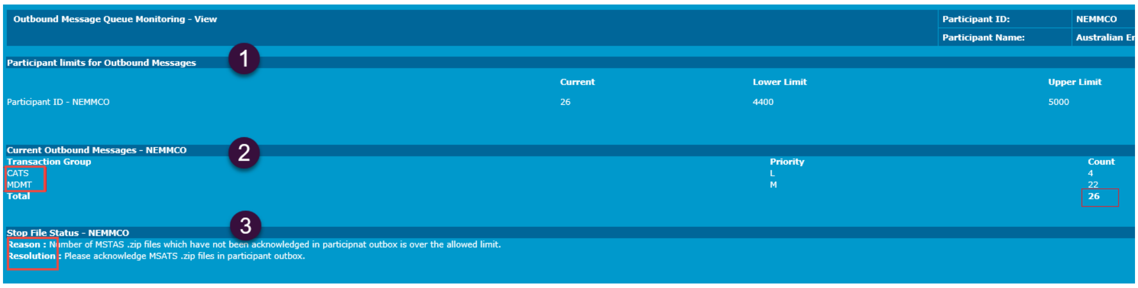


Outbound message queue

View the current daily count of unacknowledged Participant Hub Queue and Participant File Share Outbox messages and see if you have any Outbound Stop Files.

The interface changes to inform participants if they have exceeded the queue limit and are stopped. If the batch handler is stopped, the reason and the resolution display.

1. View the Current, Lower and Upper Limit for outbound messages.
2. View the daily count of unacknowledged Participant Hub Queue and Participant File Folder Outbox messages.
3. Check for Outbound Stop Files. If you have exceeded the queue limit and are stopped, the interface changes to inform you.
   If the Batch Handler is stopped, the reason and the resolution display.

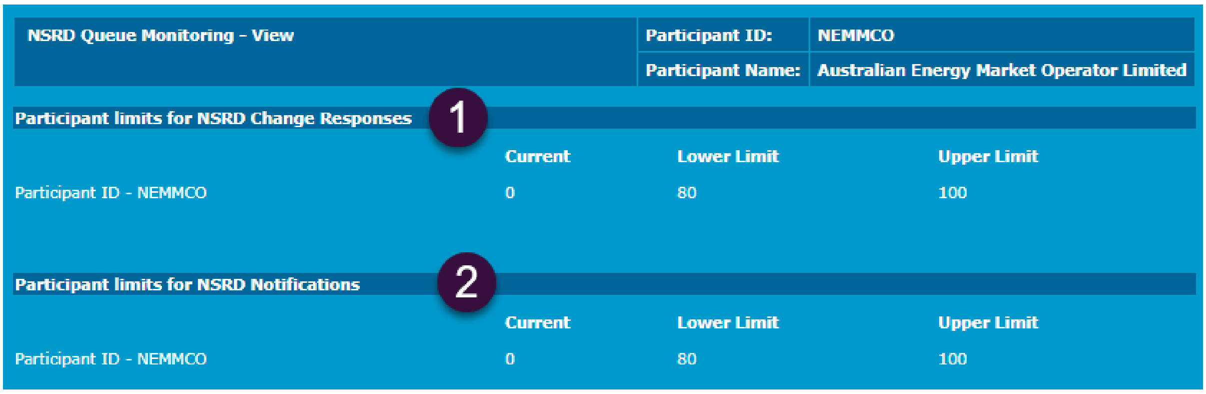


Next scheduled read date change request queue

View the daily count of CATS Change Requests with the Change Reason Code 5071 and check for NSRD Notification Stop Files.

1. View the Current, Lower and Upper Limit for Next Scheduled Read Date Change Requests.

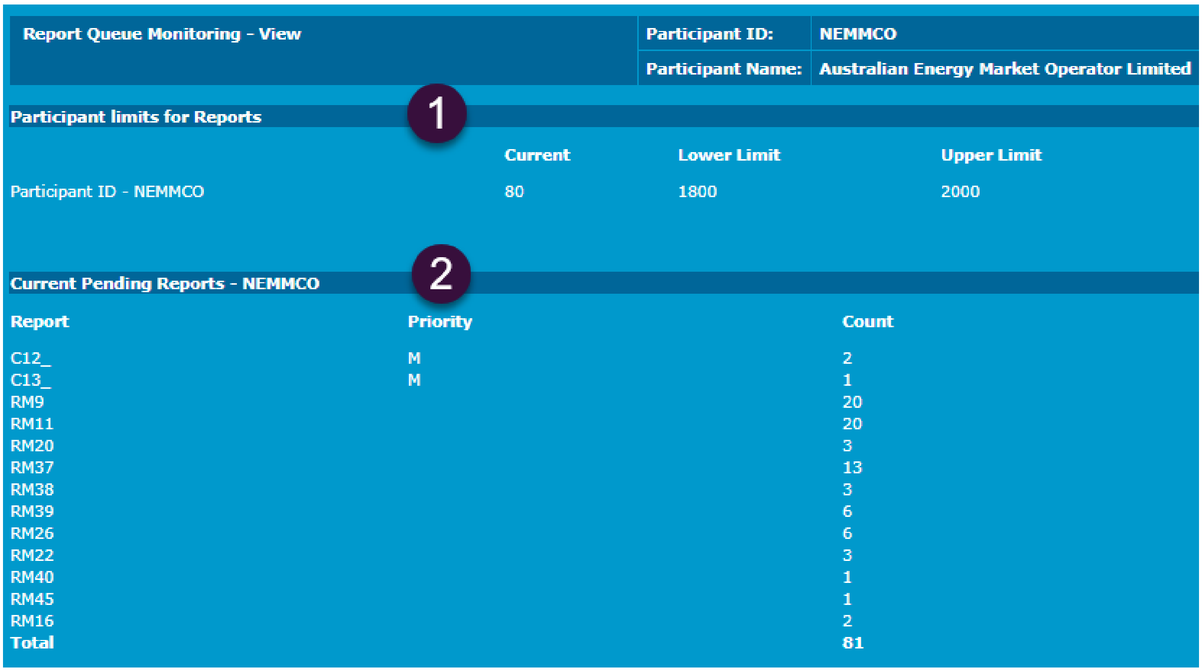
2. View the Lower and Upper Limit for Next Scheduled Read Date Notifications.



Report scheduler queue

1. View the Current, Lower and Upper Limit for reports.

2. View the daily count of unprocessed reports and check for Stop Files.



Report Queue Monitoring - View	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Participant limits for Reports

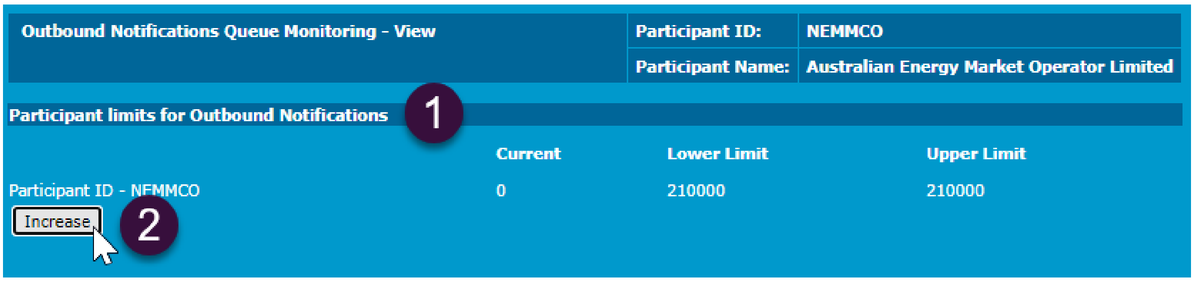
	Current	Lower Limit	Upper Limit
Participant ID - NEMMCO	80	1800	2000

Current Pending Reports - NEMMCO

Report	Priority	Count
C12_	M	2
C13_	M	1
RM9		20
RM11		20
RM20		3
RM37		13
RM38		3
RM39		6
RM26		6
RM22		3
RM40		1
RM45		1
RM16		2
Total		81

Outbound notifications queue

1. View the daily estimate of CATS Change Request Notifications.
2. Check if you have any Change Request Notification Stop Files.



Outbound Notifications Queue Monitoring - View	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

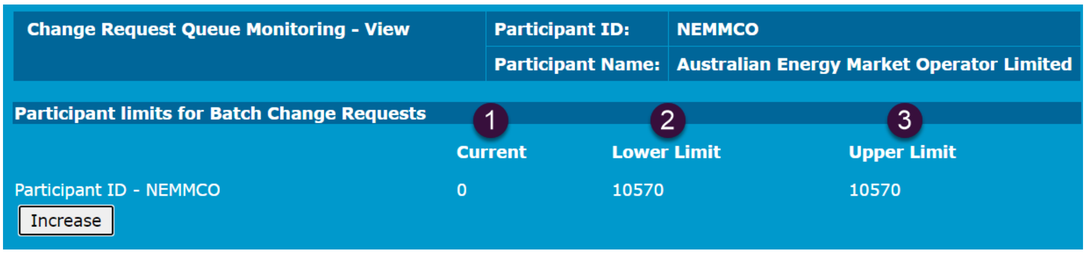
Participant limits for Outbound Notifications

	Current	Lower Limit	Upper Limit
Participant ID - NEMMCO	0	210000	210000

Change request queue

View the daily estimate of CATS Change Requests and check for Change Request Stop Files exist against your Participant ID.

1. Current: The number of submitted requests.
2. Lower Limit: The Upper Limit at the start of the day.
3. Upper Limit: The Upper Limit may increase near the end of the day due to CR limits relaxing (This also applies to the Outbound Notifications Queue).



Administration

About administration

The Administration menu allows participant administrators (PAs) to manage their Participant User's access to AEMO's web portals and ordinary Participant Users to view the codes and rules in the MSATS system. For more detailed assistance, see Guide to User Rights Management.

The submenus described in this section are for Participant Users with ordinary access rights. Depending on your access rights, you may see other Administration submenus.

Codes maintenance

This menu item contains read-only tables of all the codes used in MSATS.

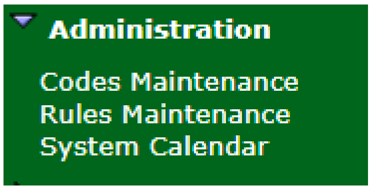
For help understanding the codes, see the MSATS Procedures.

Codes maintenance user rights access

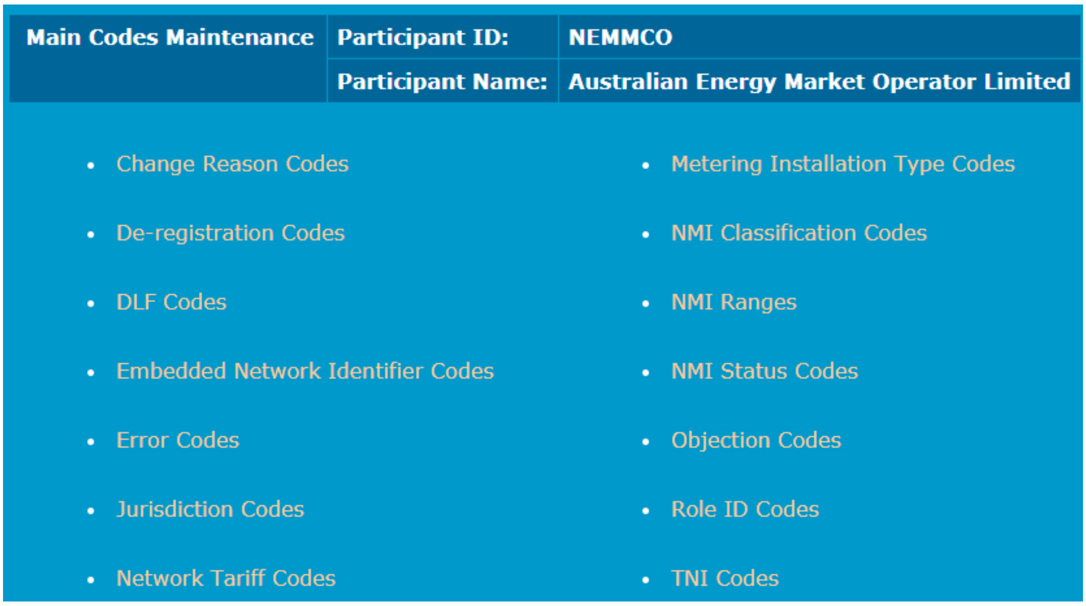
Except for NMI Ranges (see NMI ranges on page 220), Participant Administrators control access to Codes Maintenance using the Codes Maintenance entity in the Administration menu in the MSATS Web Portal.

Viewing codes maintenance

1. On the main menu, click Administration and then click Codes Maintenance.



2. The Main Codes Maintenance interface displays. Click a code group from the list to view the details. For help, see Codes maintenance lists on page 216.



3. The list displays. In each Codes Maintenance List you can:

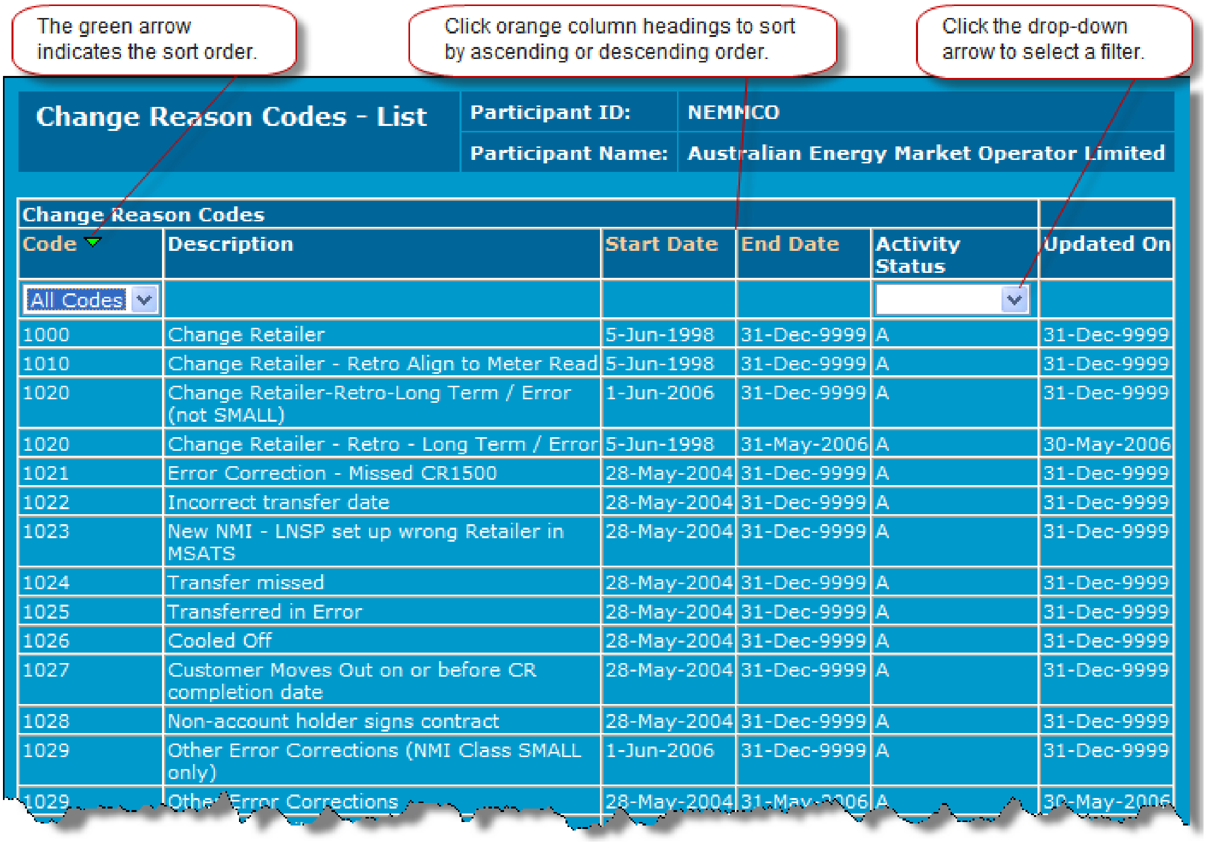
For help understanding the fields, see Standing Data for MSATS.

- Sort by ascending or descending order.
  Click the orange column headings. For example in Change reason codes on the next page, Code, Start Date or End Date are sortable columns. The green arrow indicates the sort order
- Filter the rows.
  Click the drop-down arrows and select a filter parameter. For example in Change reason codes on the next page, Code and Activity Status are filterable columns.
- See further information.
  In the Action column, click Show All.

Codes maintenance lists

Change reason codes

A list of change reasons that govern the population of data in a Change Request.



Change Reason Codes					
Code	Description	Start Date	End Date	Activity Status	Updated On
All Codes					
1000	Change Retailer	5-Jun-1998	31-Dec-9999	A	31-Dec-9999
1010	Change Retailer - Retro Align to Meter Read	5-Jun-1998	31-Dec-9999	A	31-Dec-9999
1020	Change Retailer-Retro-Long Term / Error (not SMALL)	1-Jun-2006	31-Dec-9999	A	31-Dec-9999
1020	Change Retailer - Retro - Long Term / Error	5-Jun-1998	31-May-2006	A	30-May-2006
1021	Error Correction - Missed CR1500	28-May-2004	31-Dec-9999	A	31-Dec-9999
1022	Incorrect transfer date	28-May-2004	31-Dec-9999	A	31-Dec-9999
1023	New NMI - LNSP set up wrong Retailer in MSATS	28-May-2004	31-Dec-9999	A	31-Dec-9999
1024	Transfer missed	28-May-2004	31-Dec-9999	A	31-Dec-9999
1025	Transferred in Error	28-May-2004	31-Dec-9999	A	31-Dec-9999
1026	Cooled Off	28-May-2004	31-Dec-9999	A	31-Dec-9999
1027	Customer Moves Out on or before CR completion date	28-May-2004	31-Dec-9999	A	31-Dec-9999
1028	Non-account holder signs contract	28-May-2004	31-Dec-9999	A	31-Dec-9999
1029	Other Error Corrections (NMI Class SMALL only)	1-Jun-2006	31-Dec-9999	A	31-Dec-9999
1029	Other Error Corrections	28-May-2004	31-May-2006	A	30-May-2006

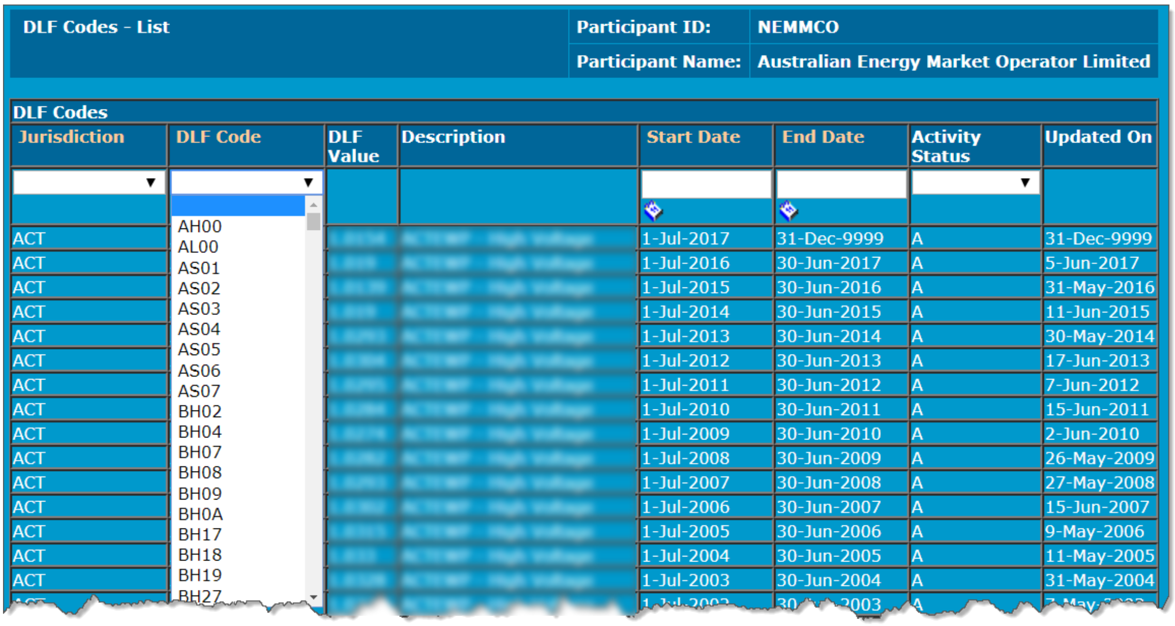
Deregistration codes

The code denoting a participant is deregistered.

De-registration Codes							
Code	Description	Start Date	End Date	Activity Status	Updated On	Updated By	Action
DEREG	Deregistered	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All

DLF codes

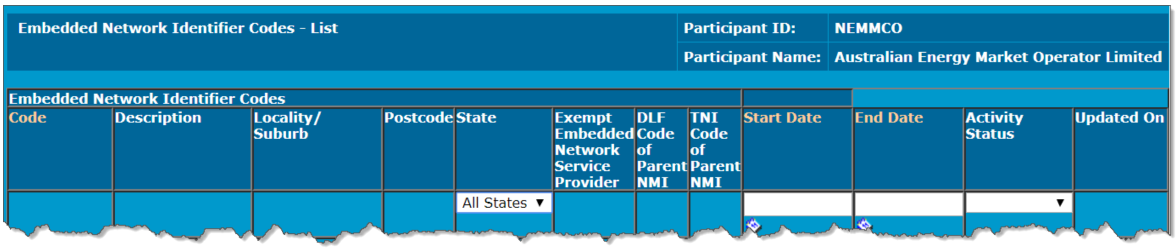
Provides a list of Distribution Loss Factor (DLF) codes and their relevant values. All NMIs are assigned a DLF Code.



Embedded network identifier codes

This table contains the embedded network identifier codes used to identify the embedded network a NMI belongs to, either as a Parent NMI or a Child NMI.

If on a NMI record this field is not populated, it is assumed the NMI is not the Child NMI of any other Parent NMI.



Error codes

The list of error codes used in MSATS and B2B.

Error Codes - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Code	Description	Start Date	End Date	Activity Status	Updated On	Updated By	Action
0	Success.	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1000	Fatal Error	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1001	Success: Changes saved	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1002	Error: A duplicate row already exists	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1003	Unable to insert into table.	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1004	No data found.	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1005	National Date Calendar Not Found	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	
1006	Unable to update the record. Another user may have updated the record after it was selected. Try changing the record again	1-Jan-2001	31-Dec-9999	A	31-Dec-9999	MSATSDATA	

Jurisdiction codes

The Jurisdiction codes identifying the Jurisdiction where a NMI is situated.

Jurisdiction Codes - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Code	Description	Start Date	End Date	Activity Status	Updated On	Updated By	Action
ACT	Australian Capital Territory	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
ALL	All Jurisdictions	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
ISO	Isolated Supplies Jurisdiction	1-Jul-2014	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All
NEM	National Electricity Market	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
NSW	New South Wales	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
QLD	Queensland	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
SA	South Australia	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
TAS	Tasmania	27-Jul-2004	31-Dec-9999	A	31-Dec-9999	WILLIAMT	• Show All
VIC	Victoria	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All

Network tariff codes

Network Tariff Codes supplied and published by the LNSP.

Network Tariff Codes - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Network Tariff Codes						
LNSP	Code	Description	Start Date	End Date	Activity Status	Updated On
NEMMCO						

Metering installation type codes

Identifies the type of Metering installation as specified in the NER.

Metering Installation Type Codes - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Metering Installation Type Codes								
Code	Description	Manually Read	Start Date	End Date	Activity Status	Updated On	Updated By	Action
COMMS3	Interval Comms - Type 3	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
COMMS4	Interval Comms - Type 4	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
MRIM	Manually Read Interval Meter - Type 5	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
PROF	Profile Setup Only	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
UMCP	Unmetered Supply - Type 7	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
BASIC	Basic Consumption Meter - Type 6	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
SAMPLE	Sample Meter	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
COMMS1	Interval Comms - Type 1	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
COMMS2	Interval Comms - Type 2	Y	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
COMMS4C	Interval Comms - Type 4C	Y	22-May-2017	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All
COMMS4D	Interval Comms - Type 4D	Y	22-May-2017	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All
MRAM	Manually Read Type 4A	Y	22-May-2017	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All
VICAMI	Victorian AMI meter	Y	22-May-2017	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All

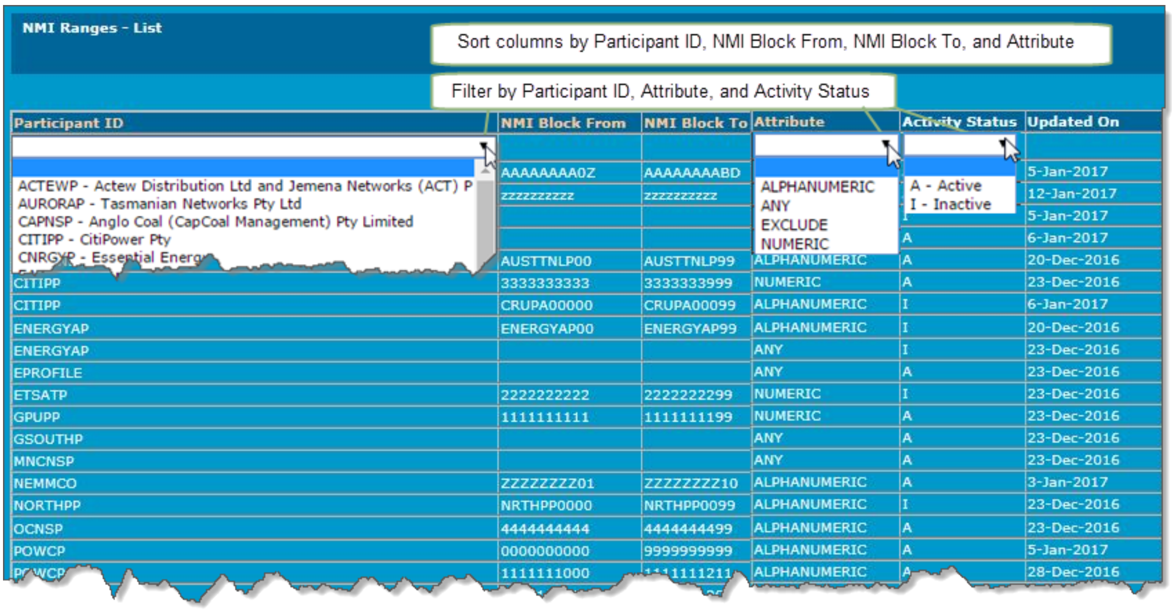
NMI classification codes

Informs MSATS of the flow of electricity at the connection point where the NMI information applies.

NMI Classification Codes - List				Participant ID:	NEMMCO		
				Participant Name:	Australian Energy Market Operator Limited		
NMI Classification Codes							
Code	**Description**	**Start Date**	**End Date**	**Activity Status**	**Updated On**	**Updated By**	**Action**
LARGE	Large	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
SAMPLE	Sample Meter	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
SMALL	Small	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
WHOLESAL	Wholesale Transmission Node Identifier	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
EPROFILE	External Profile Shape	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
GENERATR	Generator	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
INTERCON	Interconnector	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All

NMI ranges

Displays a read-only list of all NMI Ranges including those with inactive status. Participant Administrators control access to NMI Ranges using the NMI Ranges entity in the Administration menu in the MSATS Web Portal.



The default order for the NMI Ranges list is:

Order	Column	Description
1	Participant ID	The ENM/LNSP Participant ID.
2	NMI Block From	The start of the NMI range assigned to a Participant ID.
3	NMI Block To	The end of the NMI range assigned to a Participant ID.
4	Attribute	Defines the format of the NMI block and if the NMI Range CR validation applies.
5	Activity Status	Active or inactive.
6	Updated On	The date the record was created or changed.

NMI Status Codes

Used to determine if a NMI can be used for a retail transfer. The NMI Status Code X is the only status not allowing NMI transfers between Retailers.

NMI Status Codes - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

NMI Status Codes							
Code	**Description**	**Start Date**	**End Date**	**Activity Status**	**Updated On**	**Updated By**	**Action**
A	Active NMI	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
D	Not Energised	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
G	Greenfield Site NMI	8-May-2003	31-Dec-9999	A	31-Dec-9999	SANJAYP	• Show All
N	Non Market Child NMI	22-May-2017	31-Dec-9999	A	31-Dec-9999	AEMO	• Show All
X	Extinct NMI	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All

Objection Codes

Participants use.Objection Codes to object to a Change Request. They are applied to each Jurisdiction and each Change Reason Code in accordance with the Objection Rules.

Objection Codes - List					Participant ID:	NEMMCO		
					Participant Name:	Australian Energy Market Operator Limited		
Objection Codes								
Code	**Description**	**Use Objection Logging Period**	**Use Objection Clearing Period**	**Actual Change Date Clears Objection**	**Start Date**	**End Date**	**Activity Status**	**Updated On**
BADDATA	Incorrect standing data for this NMI	Y	Y	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999
BADMETER	Non-compliant metering	Y	Y	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999
BADPARTY	Nominated MDP or MP is incorrect	Y	Y	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999
BLOCK	AEMO Objection	Y	Y	N	1-Jul-2009	31-Dec-9999	A	31-Dec-9999
BLOCK	NEMMCO Objection	Y	Y	N	26-Aug-2002	30-Jun-2009	A	1-Jul-2009
CONTRACT	NMI under existing contract.	Y	Y	N	8-May-2003	31-Dec-9999	A	31-Dec-9999
CRCODE	CR code being used does not apply to NMI concerned	Y	Y	N	27-Jul-2004	31-Dec-9999	A	31-Dec-9999
DATEBAD	Retro Change Date does	Y	Y	N	5-Jun-1998	31-Dec-9999	A	31-Dec-9999

Role ID Codes

The list of participant Role IDs used in MSATS.

Participant Roles - List					Participant ID:	NEMMCO	
					Participant Name:	Australian Energy Market Operator Limited	
Participant Roles							
Role ID	**Description**	**Start Date**	**End Date**	**Activity Status**	**Updated On**	**Updated By**	**Action**
MDP	Metering Data Provider	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
MPB	Metering Provider - Maintenance	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
MPC	Metering Provider - Data Collection	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
NEMM	National Market Operator	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
ROLR	Retailer of Last Resort	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
RP	Responsible Person	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
FRMP	Financially Responsible Market Participant	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
LR	Local Retailer	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
LNSP	Local Network Service Provider	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
NSP2	Second Network Service Provider	13-May-2009	31-Dec-9999	A	31-Dec-9999	EKTAP0	• Show All
REG	Regulator	9-Aug-2013	31-Dec-9999	I	31-Dec-9999	MISMITH	• Show All
FOI	Government Agency	31-Jan-2014	31-Dec-9999	I	31-Dec-9999	SSEQUEIRAP	• Show All
OMBD	Ombudsman	8-Nov-2016	31-Dec-9999	A	31-Dec-9999	LEBULL	• Show All
BCT	Bulk Change Tool	3-May-2017	31-Dec-9999	I	31-Dec-9999	CRSHELLEY	• Show All

TNI Codes

A list of Transmission Network Connection Point identifier codes.

Participant Roles - List	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

Participant Roles							
Role ID	**Description**	**Start Date**	**End Date**	**Activity Status**	**Updated On**	**Updated By**	**Action**
MDP	Metering Data Provider	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
MPB	Metering Provider - Maintenance	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
MPC	Metering Provider - Data Collection	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
NEMM	National Market Operator	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
ROLR	Retailer of Last Resort	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
RP	Responsible Person	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
FRMP	Financially Responsible Market Participant	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
LR	Local Retailer	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
LNSP	Local Network Service Provider	5-Jun-1998	31-Dec-9999	A	31-Dec-9999	NEMMCODATA	• Show All
NSP2	Second Network Service Provider	13-May-2009	31-Dec-9999	A	31-Dec-9999	EKTAP0	• Show All
REG	Regulator	9-Aug-2013	31-Dec-9999	I	31-Dec-9999	MISMITH	• Show All
FOI	Government Agency	31-Jan-2014	31-Dec-9999	I	31-Dec-9999	SSEQUEIRAP	• Show All
OMBD	Ombudsman	8-Nov-2016	31-Dec-9999	A	31-Dec-9999	LEBULL	• Show All
BCT	Bulk Change Tool	3-May-2017	31-Dec-9999	I	31-Dec-9999	CRSHELLEY	• Show All

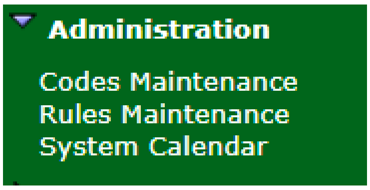
Rules maintenance

Rules Maintenance user rights access

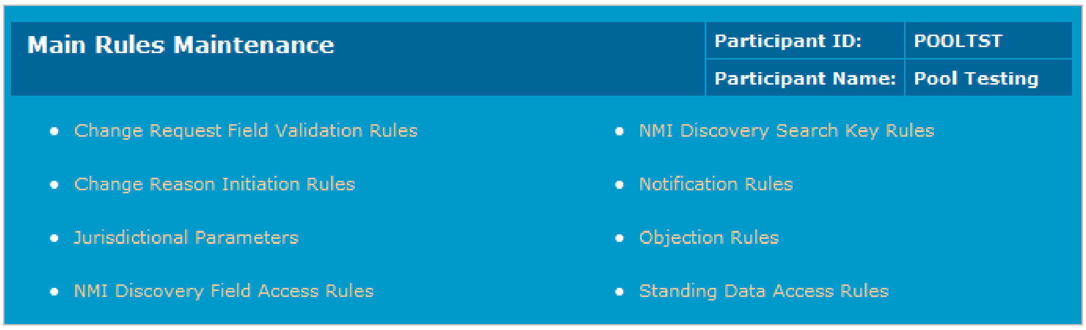
Participant Administrators control access to Rules Maintenance using the Rules Maintenance entity in the Administration menu in the MSATS Web Portal.

Viewing rules maintenance

1. On the main menu, click Administration and then click Rules Maintenance.



2. The Main Rules Maintenance interface displays. Click a rule group from the list to view the details, for example Change Request Field Validation Rules.



3. The Change Request Field Validation Rules - List displays, in each Rules Maintenance - List you can:

   - Sort by ascending or descending order.

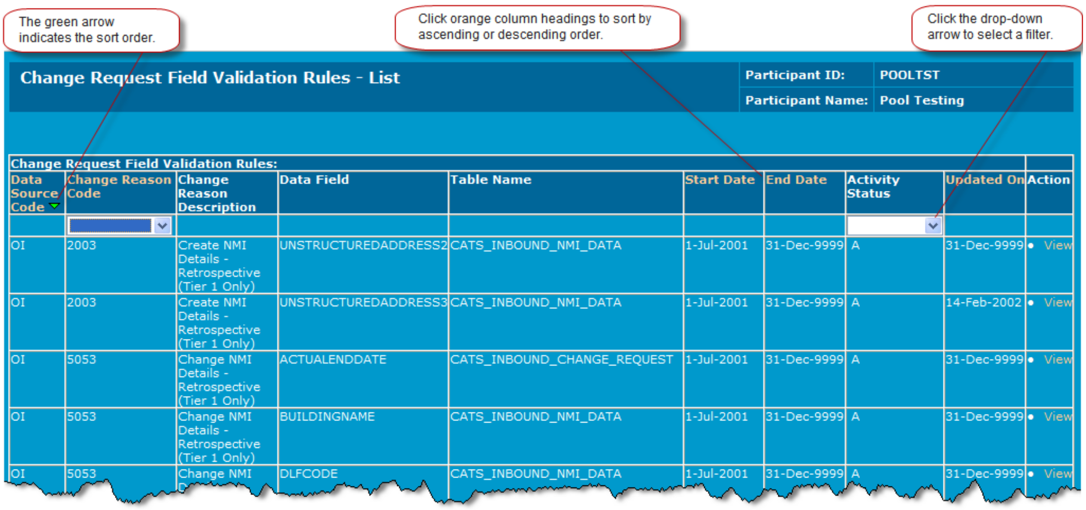
- Click the orange column headings. In the example click Data SourceCode, Change Reason Code, or Start Date. The green arrow indicates the sort order.

   - Filter the information.

- Click the drop-down arrows and select a filter parameter. In the example filter by Change Reason Code.

   - View further details

- Click View in the Action column. Selections in the Action column change according to the selected rules list.



System calendar

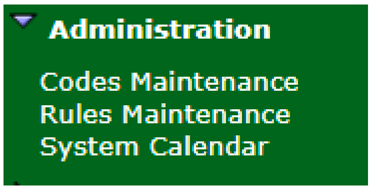
System calendar user rights access

Participant Administrators control access to System Calendar using the System Calendar entity in the Administration menu in the MSATS Web Portal.

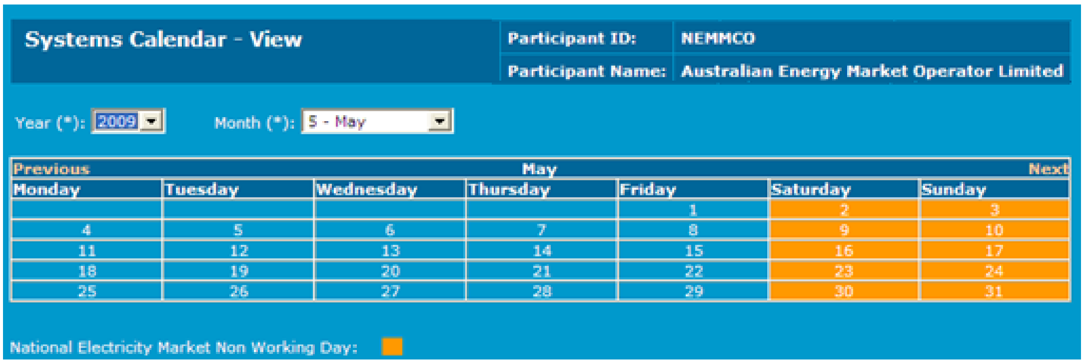
Viewing the system calendar

The system calendar is a read-only view of the working and non-working days in the NEM calendar.

1. On the main menu, click Administration and then click System Calendar.



2. The Systems Calendar - View interface displays with the following options available:
    - The Year field defaults to the current year, to change the year, click the drop-down arrow and select from the list.
    - The Month field defaults to the current month, to change the month, click the drop-down arrow and select from the list.
    - On either side of the table, there are options to move a month forward by clicking the Next link or back by clicking on the Previous link.
    - Non-working days are shown in orange.


Systems Calendar - View
Participant ID:
NEMMCO
Participant Name:
Australian Energy Market Operator Limited
Year (*):
2009
Month (*):
5 - May
Previous
May
Next
Monday
Tuesday
Wednesday
Thursday
Friday
Saturday
Sunday
1 2 3
4 5 6 7 8 9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
National Electricity Market Non Working Day:

User Profile

About user profile

From the User Profile menu, Participant Users can:

- Change their password
- Edit and view their user profile.

Change password

Participant Users use the Change Password function to change their password for **all** AEMO's energy market systems.

Changing your password in MSATS or EMMS, changes it for both.

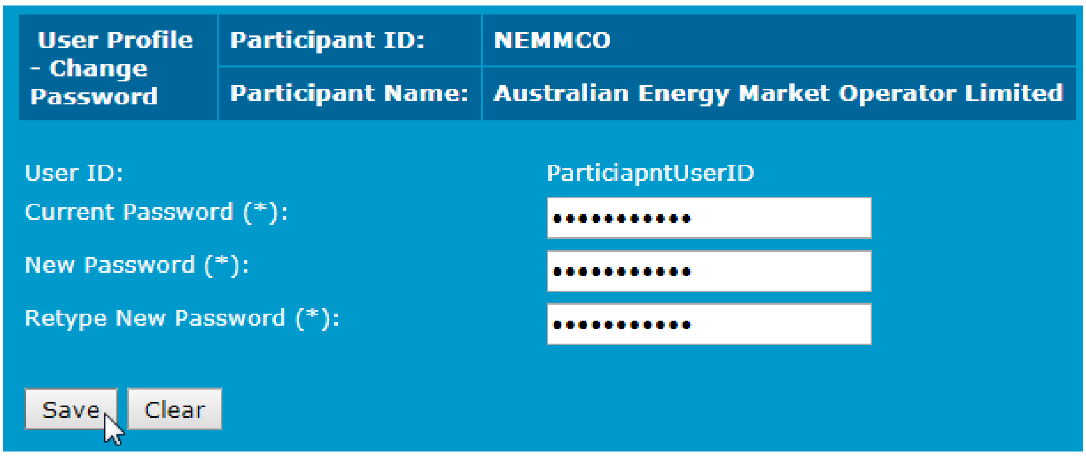
Change password user rights access

Participant Administrators control access to Change password using the Change password entity in the Administration menu in the MSATS Web Portal.

Changing your password

1. In the main menu, click User Profile and then click Change Password.
2. Your User ID is automatically completed. In the Current password field, type the password you logged in with.
3. In the New password field, type your new password.
4. In the Confirm new password field, type your new password again.

5. To save your new password, click Save. Use your new password next time you sign in to AEMO's energy market systems.



Password format

Your account is locked after six incorrect password attempts.

Passwords:

- Are case sensitive.
- Must be minimum eight characters long.
- Must contain at least one character from at least three of the following four character sets:

Description	Examples
English upper case letters	A, B, C, ... Z
English lower case letters	a, b, c, ... z
Numerals	0, 1, 2, ... 9
Non-alphanumeric ("special characters") such as punctuation symbols	- + !

- Do not include a space, a comma, or any of the following special characters <, >, &.
- Expire every 90 days (equals one cycle) but you can it before the 90-day password expiry.
- Cannot be reused in the next 12 cycles.

- Cannot use your Participant User ID or the word “password”.

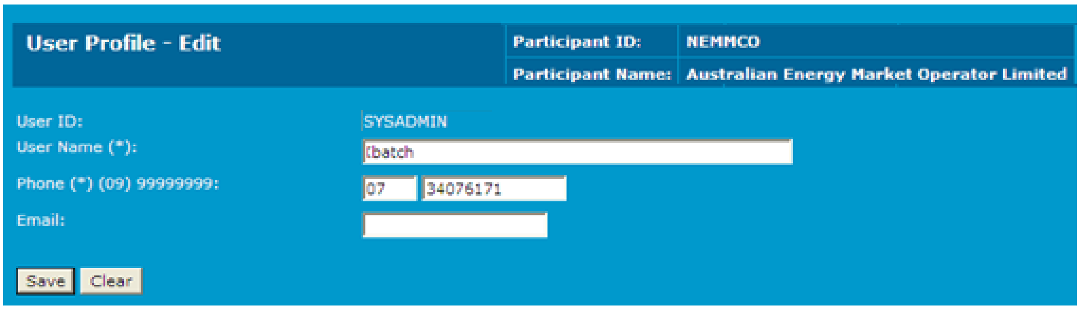
Edit user profile

The Edit User Profile menu is where you can change your user name, phone number or email address.

Editing your user profile

1. On the main menu, click User Profile and then click Edit User Profile.

2. The User Profile - Edit interface displays with your user ID pre-filled. Make your changes and click Save.



3. A confirmation message displays.

View user profile

The View User Profile menu is where you can view your user profile details.

Viewing your user profile

1. On the main menu, click User Profile and then click View User Profile.
2. The User Profile - View interface displays your profile details.

Needing Help?

Clearing your cache

When you use AEMO’s web applications, your browser stores information (for example, images) to avoid downloading it every time you open the web page. While this increases the speed, it could mean you are getting an older version of the web page and not the latest updates. To avoid this, AEMO recommends you clear the cache regularly.

The following sections explain the steps to clear the cache in your web browser.

Google Chrome

1. Click the three dots in the top-right of your browser.
2. Click Settings. You can also open this window using the Ctrl + Shift + Delete keyboard shortcut.
3. Scroll to the bottom of the page and click Advanced.
4. Under Privacy and security, click the arrow next to Clear browsing data. A new window opens.

5. Select the Cookies and other site data, and Cached images and files options.

6. From the Time range drop-down menu, choose All time option.

7. To clear all cache information, click Clear data.

Internet Explorer (IE)

1. On your web browser, click Setting > Internet Options > General tab > Browsing history, click Delete... You can also open this window using the Ctrl + Shift + Delete keyboard shortcut.

2. In the Delete Browsing History window, select Cookies and website data option.

3. To remove all cache information, click Delete.

Microsoft Edge

1. Click ... on your browser.

2. Click Settings > Clear browsing data > Choose what to clear option from the dropdown menu. You can also open this window using the Ctrl + Shift + Delete keyboard shortcut.

3. Select the Cookies and saved website data, and Cached data and files options.

4. To delete all cached information, click Clear.

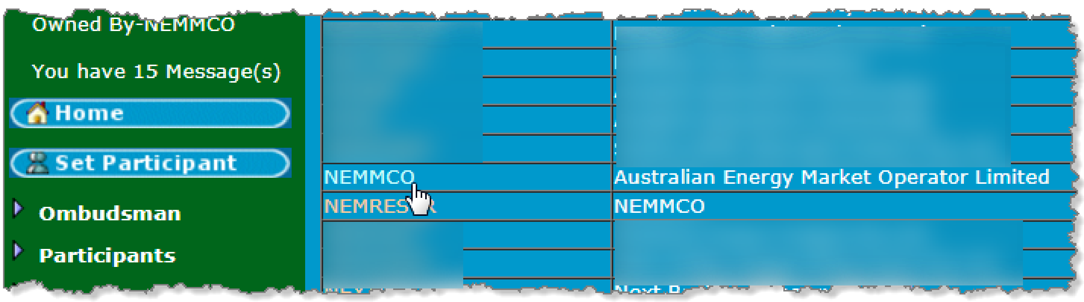
Setting a participant

Providing you have permission to do so, the Set Participant function allows you to act for another participant without having to log out, change IDs and log in again. The participant you are acting for is indicated in the top right of the Markets Portal. For permission to see other participant IDs using Set Participant, see your company's PA.

When you are using the Set Participant function, you can only log into MSATS once on the same computer.

To use Set Participant:

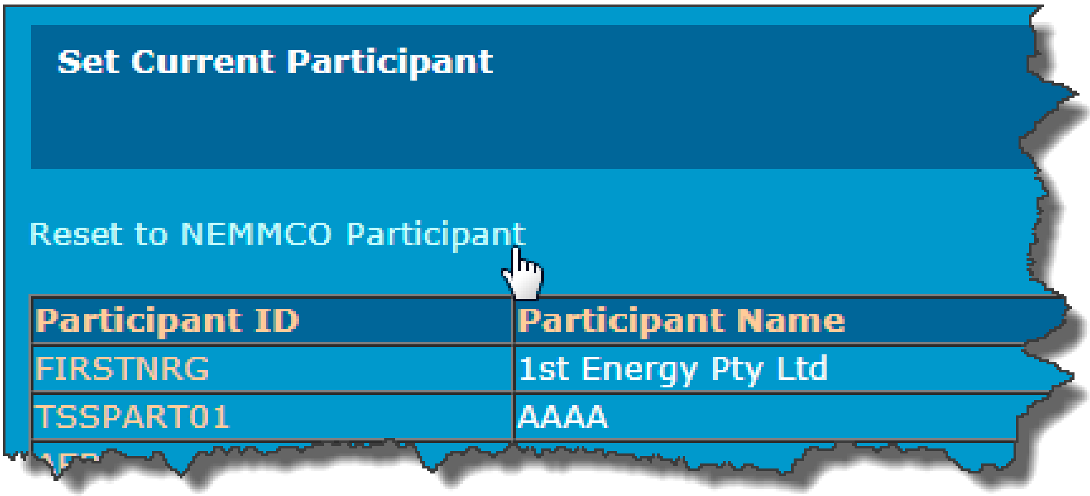
1. On the MSATS main menu, click Set Participant.
   If Set Participant is unavailable, you do not have the correct permissions. Ask your company's Participant Administrator to consider granting you access to use the Set Participant function. For help, see Guide to User Rights Management.



2. In the Set Current Participant interface, find the Participant ID you want to act for.

3. The participant you are acting for displays in the top-right corner.

4. To return to the Participant ID you logged in with, click Set Participant and Reset to <Participant ID> participant.



Supported web browsers

To access the Markets Portal, AEMO recommends the following web browsers:

Browser	Platform	Current	More information
Microsoft Internet Explorer	Windows	IE11	https://www.whatismybrowser.com/guides/the-latest-version/internet-explorer
Microsoft Edge (Microsoft recommended)	Windows 10	Edge	https://www.microsoft.com/en-au/windows/microsoft-edge
Google Chrome (AEMO recommended)	All platforms	Latest version	https://www.whatismybrowser.com/guides/the-latest-version/chrome

AEMO's support hub

IT assistance is requested through one of the following methods:

- Phone: 1300 AEMO 00 (1300 236 600)

  For non-urgent issues, normal coverage is 8:00 AM to 6:00 PM on weekdays, Australian Eastern Standard Time (AEST).

- The Contact Us form on AEMO's website.

AEMO recommends participants call AEMO's support hub for all urgent issues, whether or not you have logged a call using the contact us form.

Feedback

To suggest improvements to this document, please contact the **AEMO Information and Support Hub**.

Terms

Rules terms

You can find the following terms defined in the National Electricity Rules.

Glossary

You can find glossary terms in the:

- Retail Electricity Market Procedures - Glossary and Framework
- Industry terminology on AEMO's website.

References

You can find resources on AEMO's website.

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