Guide to MSATS B2B

Version 13.01

October 2021

Provides information about the B2B e-Hub functions available in the Market Settlement and Transfer System (MSATS)

Important Notice

PURPOSE

This Guide to MSATS B2B (Guide), prepared by AEMO, provides guidance for B2B e-Hub under the NER (Rules).

Important Notice

AEMO has prepared this Guide to MSATS B2B (Guide) to provide guidance on the use of the B2B e-Hub under the National Gas or Electricity Rules (Rules), as at the date of publication.

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Version 13.01 Additional information about applying B2B transforms and supported B2B schema versions
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DOCUMENTS MADE OBSOLETE

The release of this document changes any previous versions of Guide to MSATS B2B.

Contents

Introduction

Purpose

Provides information about the B2B e-Hub functions available in the Market Settlement and Transfer System (MSATS)

Audience

This guide is relevant to B2B E-Hub Participants. A secondary audience is company's Participant Administrators (PAs) wanting to know the user rights entities for their Participant Users.

What's in this guide

Need to Know on page 4 provides information about related procedures, rules, assumed knowledge, prerequisites, related documents, and user rights access.

About B2B e-Hub on page 8 describes who can use, how to use, and how to access MSATS B2B.

B2B Browser on page 10 provides assistance with using your B2B folders for handling B2B transactions delivered between B2B E-Hub Participants.

B2B Responder on page 87 explains how to use the B2B Responder to test B2B transactions to track the flow of messages between the Responder and your participant ID.

Needing Help on page 99 provides related resources, information about contacting AEMO's Support Hub, and how to provide feedback.

References on page 109 provides a list of related information mentioned throughout this guide.

Terms on page 107 explains the Rules terms used throughout this guide and where to find explanations for other capitalised words.

For information about the technical specifications for the delivery of B2B Transactions using the B2B e-Hub API Gateway, see Market Protocol Technical Guide.

How to use this guide

- This document is written in plain language for easy reading.
- Where there is a discrepancy between the Rules, NEL or information or a term in this document, the Rules and NEL prevail.
- If there are any inconsistencies between the MSATS Procedures and the B2B Procedures, the MSATS Procedures prevail.
- If there are any inconsistencies between this guide and the B2B Procedures, the B2B procedures prevail.

- Diagrams are provided as an overview. In case of ambiguity between a diagram and the text, the text prevails.
- Text in this format indicates a resource on AEMO's website.
- Text in this format indicates a direct link to a related resource.
- Text in this format are actions to complete in the Markets Portal interface.
- Glossary terms are capitalised and have the meanings listed against them in the Retail Electricity Market Glossary and Framework.
- Rules terms are capitalised and defined in the NER. Any rules terms not in this format still have the same meaning.
- References to time are 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.
- References to currency are to Australian dollars.

Need to Know

Related rules and procedures

The following resources are related to MSATS B2B:

- Australian Energy Market Commission (AEMC)
- Australian Energy Regulator (AER)
- B2B Procedures
- Current National Electricity Rules
- Retail Electricity Market Procedures - Glossary and Framework

Related resources

You can find resources mentioned throughout this guide on AEMO's website: www.aemo.com.au.

B2B Guide: Describes how B2B Communications are used in standard processes in the NEM.

B2B Mapping to aseXML: Provides an understanding of the connection between aseXML and the B2B Procedures.

B2B Validation Module Software and Guide: A validation application participants can embed in their B2B systems to validate an .XML file before it is deployed to the B2B e-Hub.

B2B Validation Module Matrix: B2B aseXML schema validation spreadsheet.

Guide to B2B e-Hub Self-Accreditation: Assists intending B2B e-Hub Participants to understand the B2B e-Hub (e-Hub) self-accreditation process.

Guide to Transition of aseXML: Provides information for participants transitioning to another aseXML schema version.

MSATS Participant Batcher Software and Guide: Sample software and guide for using the MSATS file interface.

Participant Batcher Software and Guide: to move files from their local MSATS participant folders to their AEMO MSATS participant folders.

Shared Market Protocol (SMP) Technical Guide: Provides participants with the technical specifications for the delivery of B2B transactions using the B2B e-Hub APIs. This detail assists participants developing their own systems toutilise these APIs.

Assumed knowledge

This guide assumes you have knowledge of the:

- Retail Electricity Market Procedures - Glossary and Framework
- B2B Procedures
- aseXML Standards

Prerequisites

To use the production B2B e-Hub you must be a Registered B2B E-Hub Participant. To become a Registered B2B e-Hub Participant, you must gain accreditation, for details, see Guide to B2B e-Hub Self-Accreditation.

User rights access

Providing you have the appropriate access rights, the B2B functions discussed in this guide display in the MSATS main menu. Depending on your access rights, the menu items you see may differ. Speak with your company's Participant Administrator to discuss your access rights.

To access the B2B e-Hub, 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.

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.

Participant user types

User rights fall into two categories, ordinary user and Participant Administrator (PA). Many Participant Users can share the same right, or a right can be created for an individual.

A summary of these rights are:

- **Participant administrators (PAs)** are users who are assigned an administrator right for their company. They maintain users from their company’s point of view.PAs create new users and assign rights within their company. Administrators can only assign equal or lesser rights than they have themselves when creating a new user.
- **Ordinary user** are participant users who use MSATS to submit and complete transactions or to look up and download information.

URM entities

Participant administrators assign different entity types to participant users depending on the interface they use:

- **Batch**: For transactions using the batch handlers (file interface).
- **Interactive**: For access to the MSATS web portal and web services.

For the entities to provide for access to each B2B function, see the User Rights Access section for each functionality.

About B2B e-Hub

Who can use B2B e-Hub

Registered Market Participants, Third Party B2B Participants, Energy Ombudsman, and AEMO have access to the information in the system in accordance with the National Electricity Rules (NER).

How to use B2B e-Hub

You can use the B2B e-Hub with the following interfaces:

1. B2B Browser and B2B Responder in the Markets Portal (this guide).
2. FTP to the Participant File Server.

   For help, see Technical Guide to MSATS > File interface (FTP).

4. B2B API e-Hub.

   For help, see Shared Market Protocol (SMP) Technical Guide.

For help with web browsers and other access issues, see System requirements on page 103.

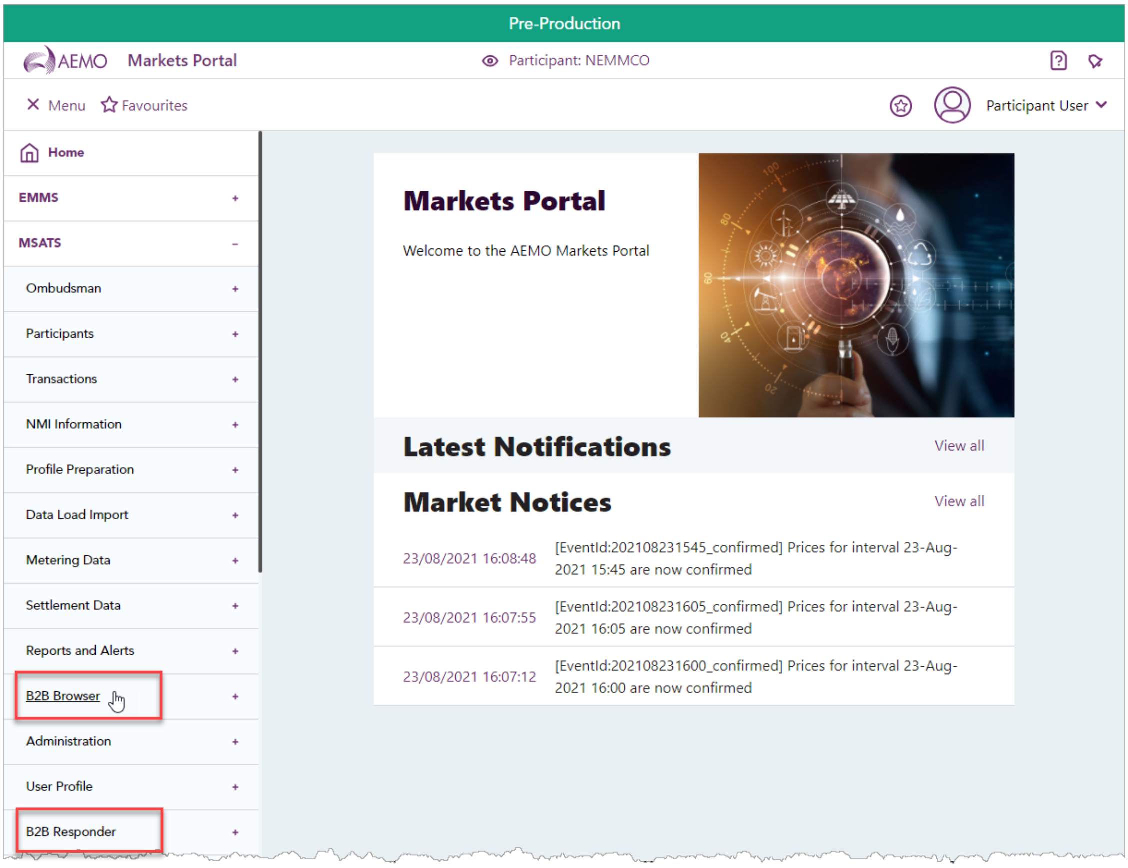
Accessing B2B e-Hub

1. Using your web browser, access the Web Portal, either:
   a. Pre-production: https://portal.preprod.marketnet.net.au
   b. Production: https://portal.prod.marketnet.net.au

   The web portal gives you a clear indication of the environment you are working in with the pre-production environment having a header at the top of the page.

2. Login with your Username and Password provided by your Participant Administrator. For help, see User rights access on page 6.

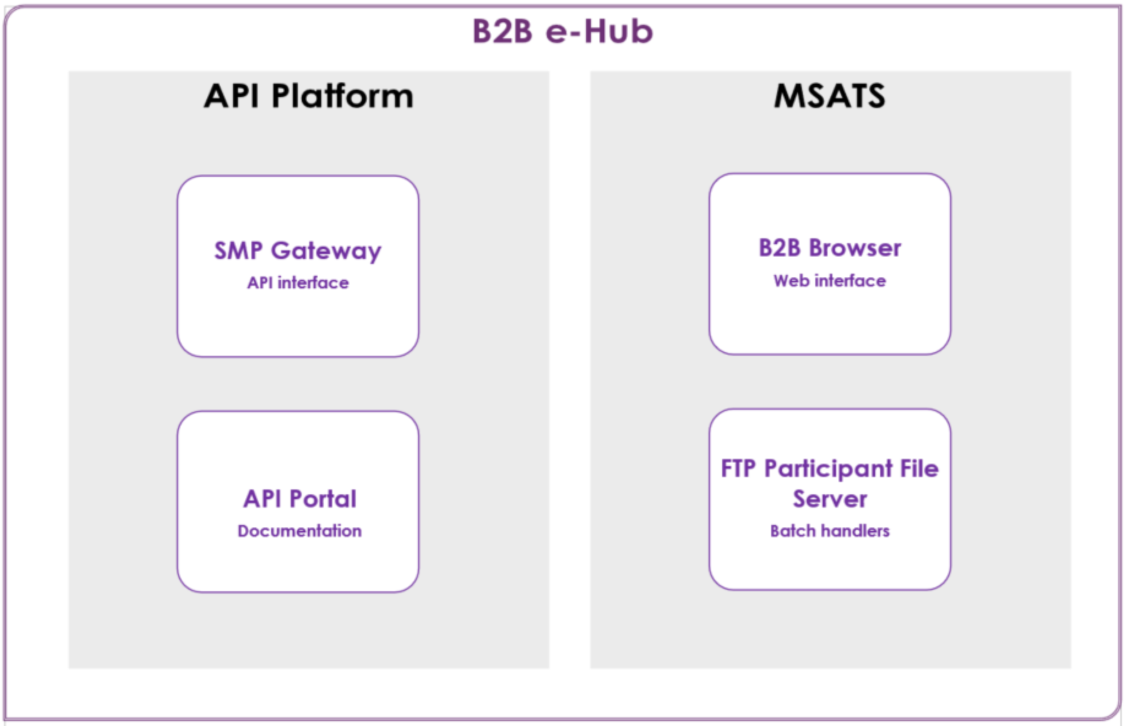
3. Click MSATS and then B2B Browser or B2B Responder.



B2B Browser

About the B2B Browser

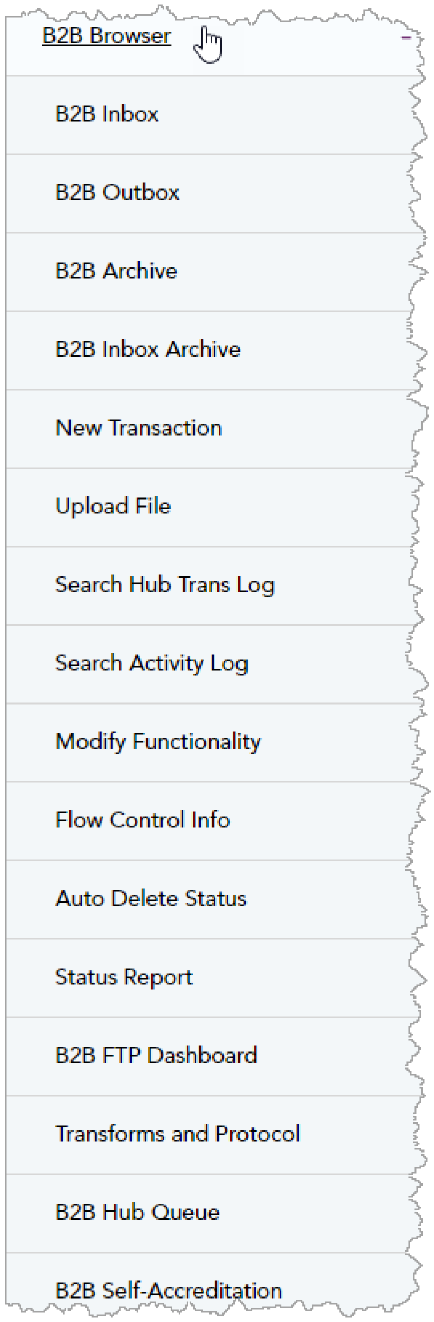
Along with the API Platform and FTP Participant File Server, the B2B Browser and Batch Handlers are components of the B2B e-Hub.



Providing you have the appropriate access rights, the B2B Browser menu displays in the MSATS main menu. Depending on your access rights, the menu items discussed in this chapter may differ to the ones you see or have access to. For help with user access rights, see User rights access on page 6.

For help with B2B procedures and transactions, see B2B Procedures.

For information about the technical specifications for the delivery of B2B Transactions using the B2B e-Hub API Gateway, see Shared Market Protocol (SMP) Technical Guide.



B2B participant file server

The MSATS Participant File Server has B2B folders for handling B2B transactions delivered between B2B Participants. These B2B folders reside under the B2B directory within the root path of your participant directory and include the following:

- B2B Inbox: B2B e-Hub Participants have read or write access to their B2B Inbox where they place their B2B Messages or Acknowledgements when initiating or acknowledging a transfer.
- B2B Outbox: B2B e-Hub Participants only have read access to their B2B Outbox where they receive B2B Messages and Acknowledgements from other B2B Participants.
- B2B Archive: B2B e-Hub Participants only have read access to their B2B Archive, it is where all acknowledged B2B Messages are moved.

- B2B Inbox Archive: B2B e-Hub Participants only have read access to their B2B Inbox Archive. When the first level acknowledgement (ac1) takes place in the B2B Inbox, it is archived into the B2B Inbox Archive folder.

For more details about the Participant File Server, see Interfaces in Technical Guide to MSATS.

B2B inbox

This interface is for B2B E-Hub Participants using the FTP Protocol to manage and acknowledge B2B Messages sent from other B2B E-Hub Participants.

The B2B Inbox is used by FTP participants only.

Participants Users with access rights can read and write to the B2B Inbox where they can place B2B messages or acknowledgements. Access to the inbox is through the MSATS participant file server or the MSATS B2B Browser.

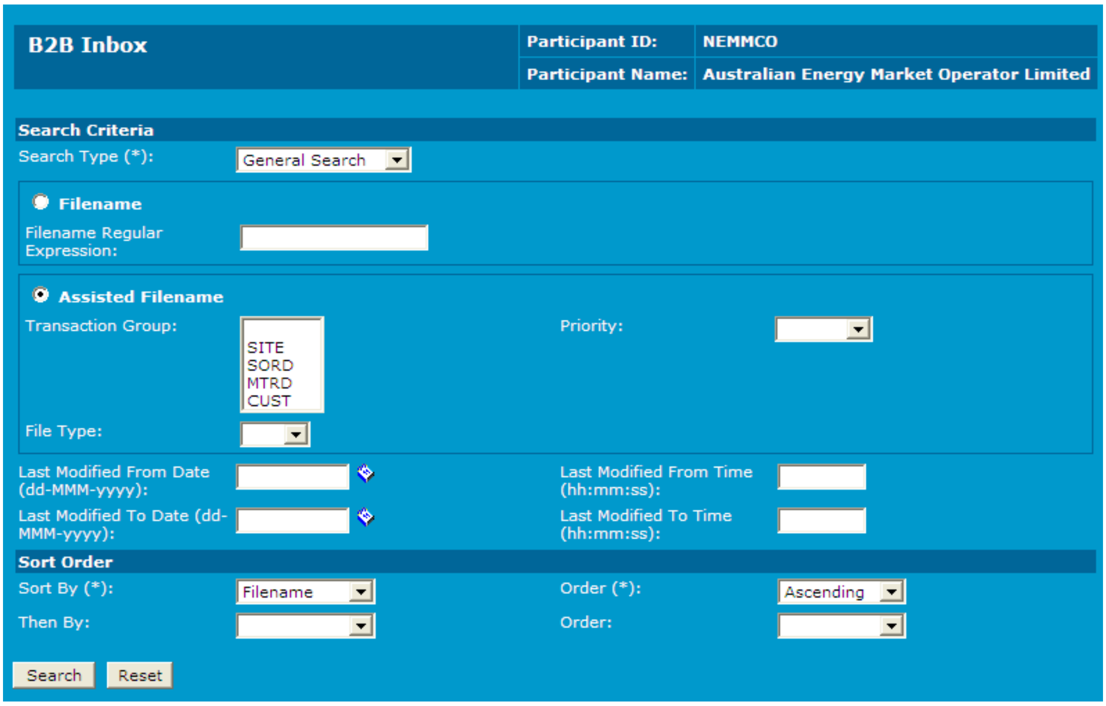
B2B Inbox user rights access

For access to the B2B Inbox, PAs select the B2B Directory Inbox entity in the Administration >Maintain Rights menu.

To acknowledge B2B messages, PAs select the B2B Message Acknowledgement entity in the Administration >Maintain Rights menu.

Searching the B2B inbox

1. On the main menu, click B2B Browser, and then click B2B Inbox.



2. Click the Search Type drop-down arrow and select a search type (this is a required field):
   - General Search: search for all file types.
   - ZIPS for Deletion: search for .zip files that have a corresponding .ack and .ac1 file in the B2B Outbox.
   - ACKS for Deletion: search for .ACK files that do not have a corresponding .zip file in the B2B Outbox.
3. Click the Filename field and type an expression to match the target filename.
4. The Assisted Filename field is used to search for Transaction Group, Priority and File Type.

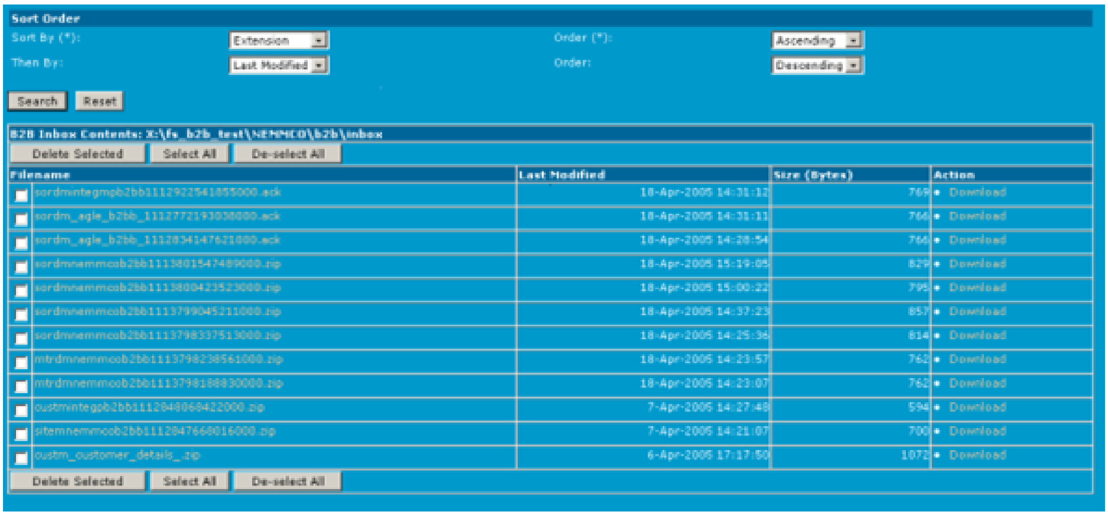
5. In the Last Modified Date and Time fields, you can search for files that fall within a defined date and time range.

6. In the Sort Order section, select how to display your search results. The Sort By and Order fields are required. There are two orders you can sorted by: The first is given priority, and then within the first sort result, the second order is performed. In the example below, the results are sorted first by Extension in Ascending order and then by Last Modified date in Descending order.

A blank field acts as a wildcard. For example, a blank field for Transaction Group has the effect of searching all transaction groups.

7. Click Search or Reset to clear all fields and start again.

8. The search results display. In the example below, the results are sorted first by file Extension in Ascending order and then by Last Modified date in Descending order.



9. Next do one of the following (only available to users with appropriate access rights):

- View a file by clicking the filename in the Filename column.
- Download a file by either:
    - Clicking Download next to the required file in the Action column.

    - Viewing the file and clicking Download from the View Message Acknowledgement interface.

- Select files by either:
    - Placing a tick next to the filename (☑).
    - Clicking Select All to select all files.
    - Clicking De-select All to untick selected files.
- Delete a file by either (this option is only available to participants with the relevant rights):
    - Clicking Delete in the Action column for the relevant file.
    - Selecting the files for deletion and clicking Delete Selected.

B2B outbox

This interface is for B2B E-Hub Participants using the FTP Protocol to manage and acknowledge B2B Messages sent from other B2B E-Hub Participants.

The B2B Outbox contains received files. Access to the outbox is through the Participant File Server or the B2B Browser in the MSATS web portal. The B2B E-Hub archives completed B2B transactions after 10 days, B2B archive on page 35.

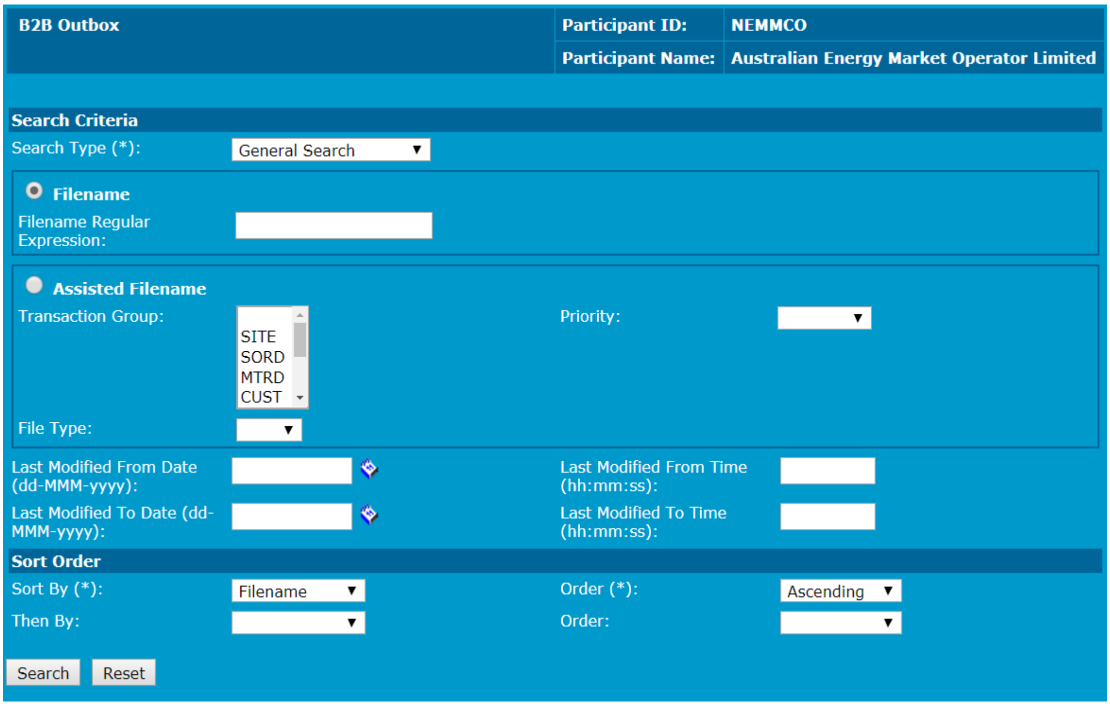
The B2B Outbox is used by FTP participants only.

B2B outbox user rights access

For access to the B2B Outbox, Participant Administrators select the B2B Directory Outbox entity in the Administration >Maintain Rights menu.

Searching the B2B outbox

1. On the main menu, click B2B Browser and then click B2B Outbox.



2. Click the Search Type drop-down arrow and select a search type (this is a required field):

    - General Search: search for all file types.
    - Unacknowledged Zips: searches for .zip files that do not have a corresponding .ACK file in the B2B Inbox.

3. Select theFilename field, type a regular expression to match the target filename.

4. The Assisted Filename field is used to search for specific criteria: Transaction Group, Priority and File Type.

    Note: a blank field acts as a wildcard. For example, a blank field for Transaction Group has the effect of searching all transaction groups.

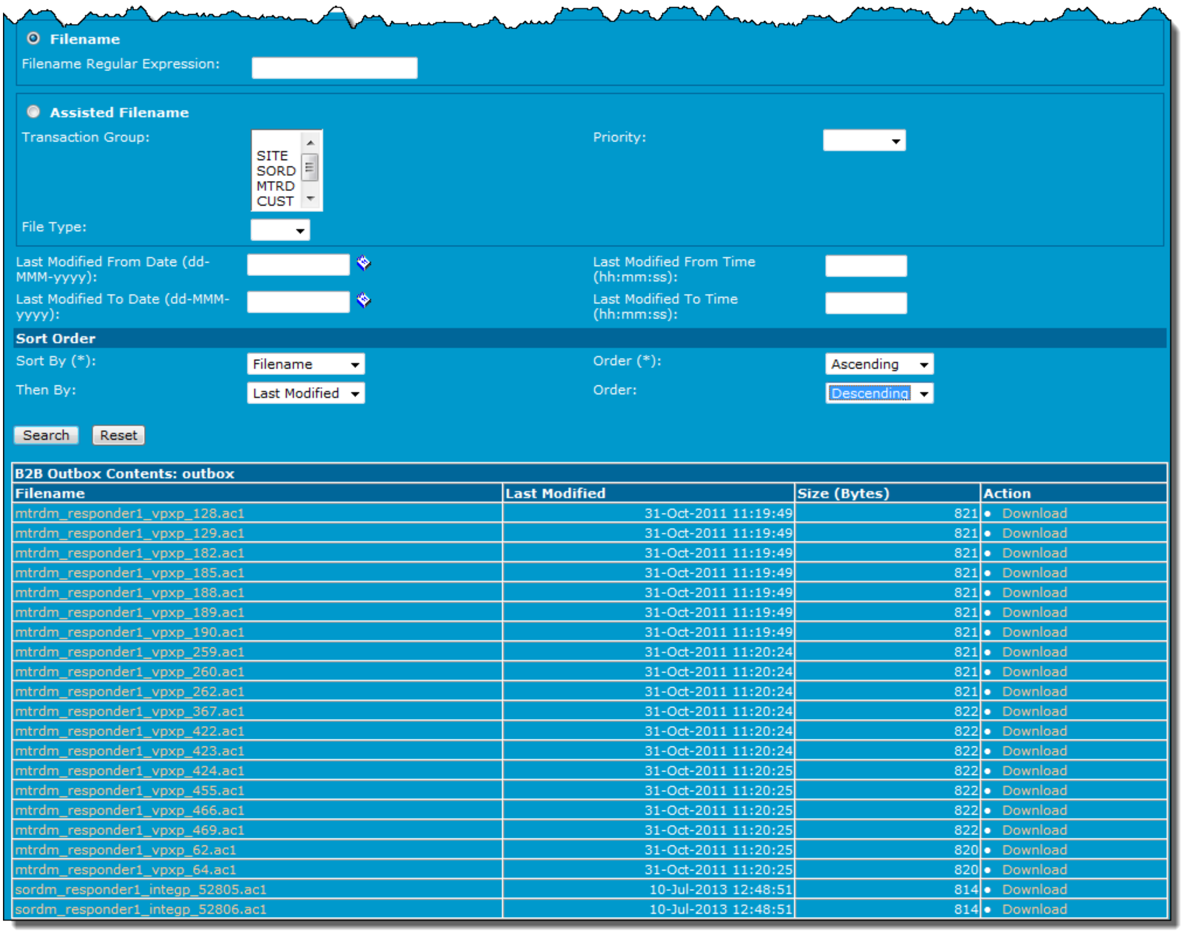
5. In the Last Modified Date and Time fields, you can search for files that fall within a defined date and time range.

6. In the Sort Order section, select how to display your search results. B2B inbox on page 14.

7. Click Search.
   Click Reset to clear all fields and start again.

8. The Search Results display. Next do one of the following (only available to users with appropriate access rights):

   - View a file by clicking the filename in the Filename column.
   - Download a file by either:
     - Clicking Download next to the required file in the Action column.
     - Viewing the file and clicking Download from the View Message Acknowledgement interface.
   - Select files by either:
     - Placing a tick next to the filename (☑).
     - Clicking Select All to select all files.
     - Clicking De-select All to untick selected files.
   - Delete a file by either (only available to users with appropriate access rights):
     - Clicking Delete in the Action column for the relevant file.
     - Selecting the files for deletion and clicking Delete Selected.



Filename
Filename Regular Expression:
Assisted Filename
Transaction Group: SITE SORD MTRD CUST
Priority:
File Type:
Last Modified From Date (dd-MMM-yyyy):
Last Modified From Time (hh:mm:ss):
Last Modified To Date (dd-MMM-yyyy):
Last Modified To Time (hh:mm:ss):
Sort Order
Sort By (*): Filename
Order (*): Ascending
Then By: Last Modified
Order: Descending
Search Reset

B2B Outbox Contents: outbox

Filename	Last Modified	Size (Bytes)	Action
mtrdm_responder1_vpxp_128.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_129.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_182.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_185.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_188.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_189.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_190.ac1	31-Oct-2011 11:19:49	821	Download
mtrdm_responder1_vpxp_259.ac1	31-Oct-2011 11:20:24	821	Download
mtrdm_responder1_vpxp_260.ac1	31-Oct-2011 11:20:24	821	Download
mtrdm_responder1_vpxp_262.ac1	31-Oct-2011 11:20:24	821	Download
mtrdm_responder1_vpxp_367.ac1	31-Oct-2011 11:20:24	822	Download
mtrdm_responder1_vpxp_422.ac1	31-Oct-2011 11:20:24	822	Download
mtrdm_responder1_vpxp_423.ac1	31-Oct-2011 11:20:24	822	Download
mtrdm_responder1_vpxp_424.ac1	31-Oct-2011 11:20:25	822	Download
mtrdm_responder1_vpxp_455.ac1	31-Oct-2011 11:20:25	822	Download
mtrdm_responder1_vpxp_466.ac1	31-Oct-2011 11:20:25	822	Download
mtrdm_responder1_vpxp_469.ac1	31-Oct-2011 11:20:25	822	Download
mtrdm_responder1_vpxp_62.ac1	31-Oct-2011 11:20:25	820	Download
mtrdm_responder1_vpxp_64.ac1	31-Oct-2011 11:20:25	820	Download
sordm_responder1_integp_52805.ac1	10-Jul-2013 12:48:51	814	Download
sordm_responder1_integp_52806.ac1	10-Jul-2013 12:48:51	814	Download

B2B hub queue

About the B2B hub queue

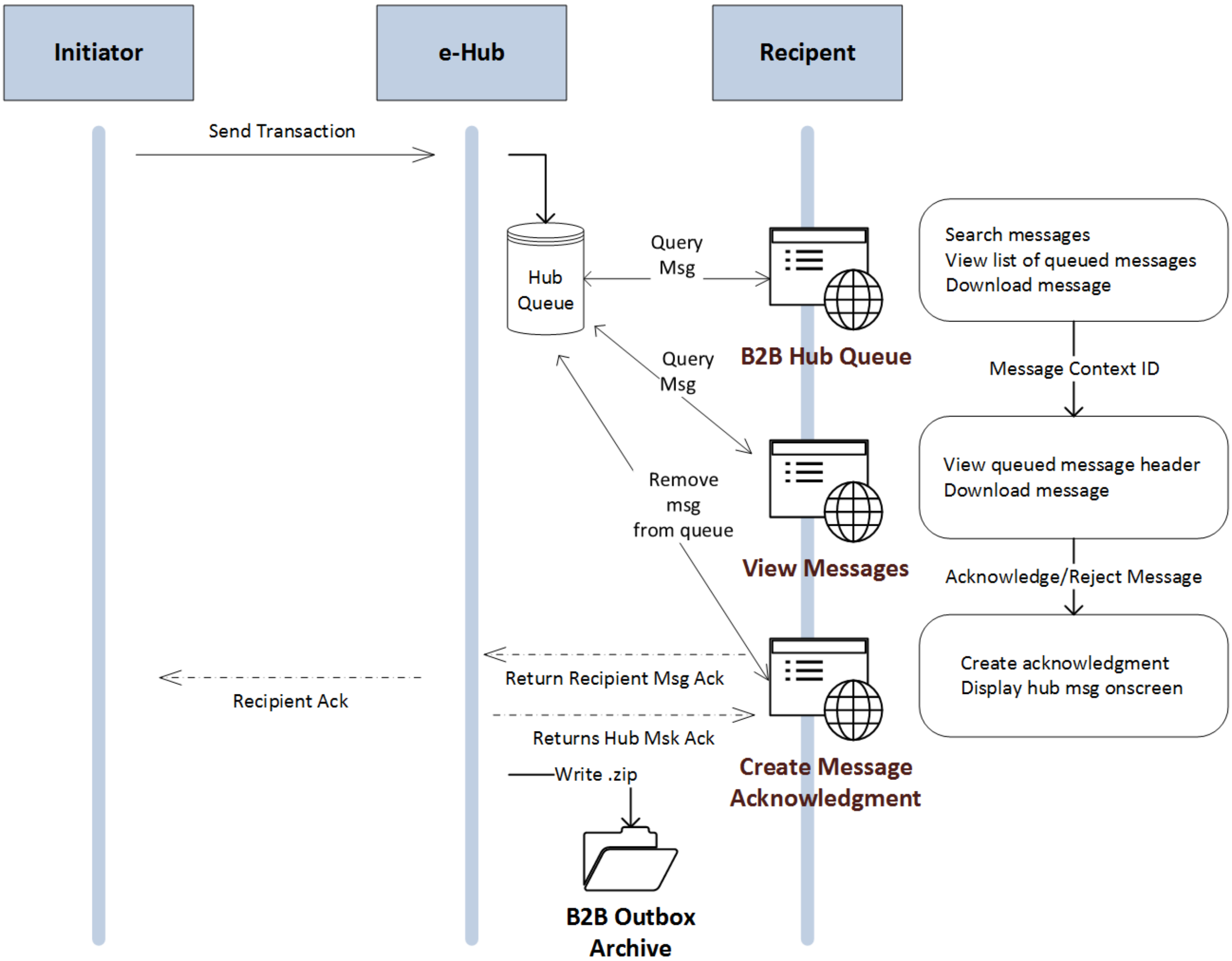
This interface is for B2B E-Hub recipients using the API Protocol to manage and acknowledge B2B Messages.The B2B Hub Queue reflects queued messages in the B2B e-Hub API Gateway only. Participants can only view their own B2B Hub Queue.

B2B Recipients can:

- View all e-hub queued B2B retail transaction messages.
- Download an aseXML retail transaction message.
- Acknowledge a B2B retail transaction message and remove it from their queue.

This interface does not support the FTP Protocol B2B messages, see **B2B inbox on page 14.**

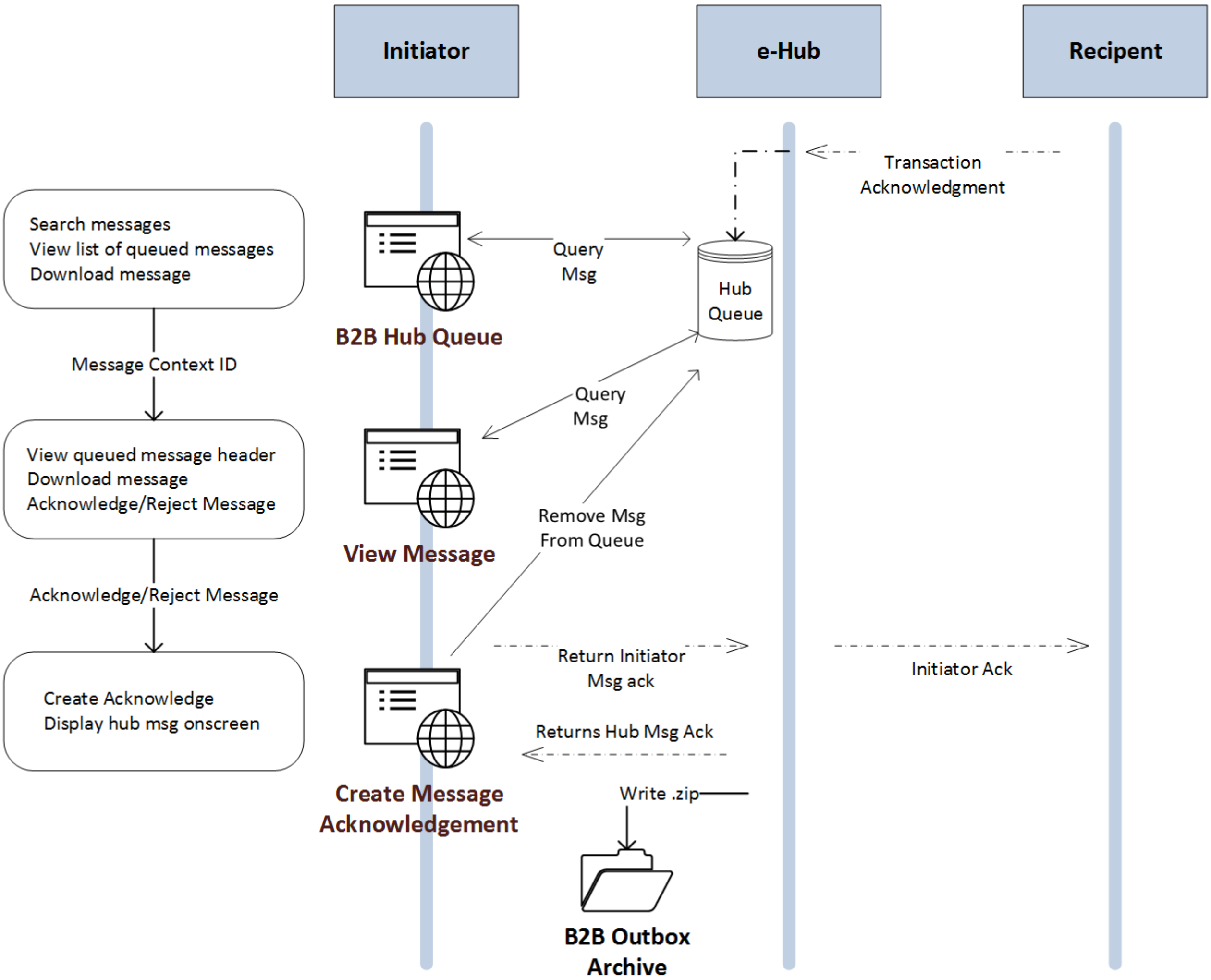
Figure 1 Manage Recipient transaction messages



B2B Initiators can:

- View all e-hub queued B2B retail transaction acknowledgements.
- Download an aseXML B2B retail transaction acknowledgement.
- Download an aseXML message acknowledgement.
- Delete a message acknowledgement from their queue.
- Acknowledge a B2B retail transaction acknowledgement and remove it from their queue.

Figure 2 Manage Initiator transaction messages



B2B hub queue user rights access

For access to the B2B Hub Queue, Participant Administrators select the B2B Hub Queue entity in the Administration >Maintain Rights menu.

Access the B2B hub queue

> You cannot view or execute actions against messages and message acknowledgements with a status of Parked.

1. On the main menu, click B2B Browser and then click B2B Hub Queue.
2. The B2B Hub Queue interface displays with the following functionality, similar to the B2B Outbox interface:
   a. **Messages and Errors**: Reports the count of messages in the hub and the count of messages matching the search criteria, after each search.
      - White text = normal messages.
      - Yellow text = error messages.

   b. **Search criteria**

   c. **B2B Hub Queue Contents**. Displays the list of files that match your search criteria so you can view, reject, or delete messages.

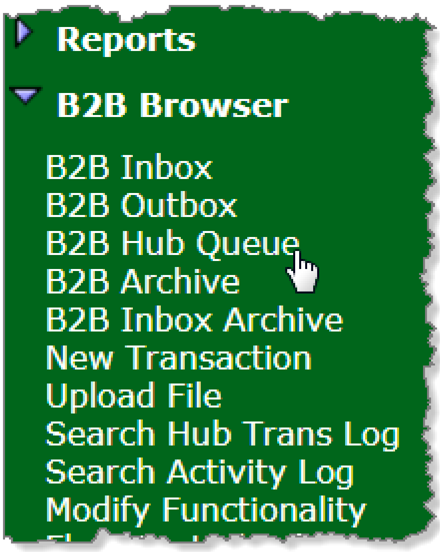
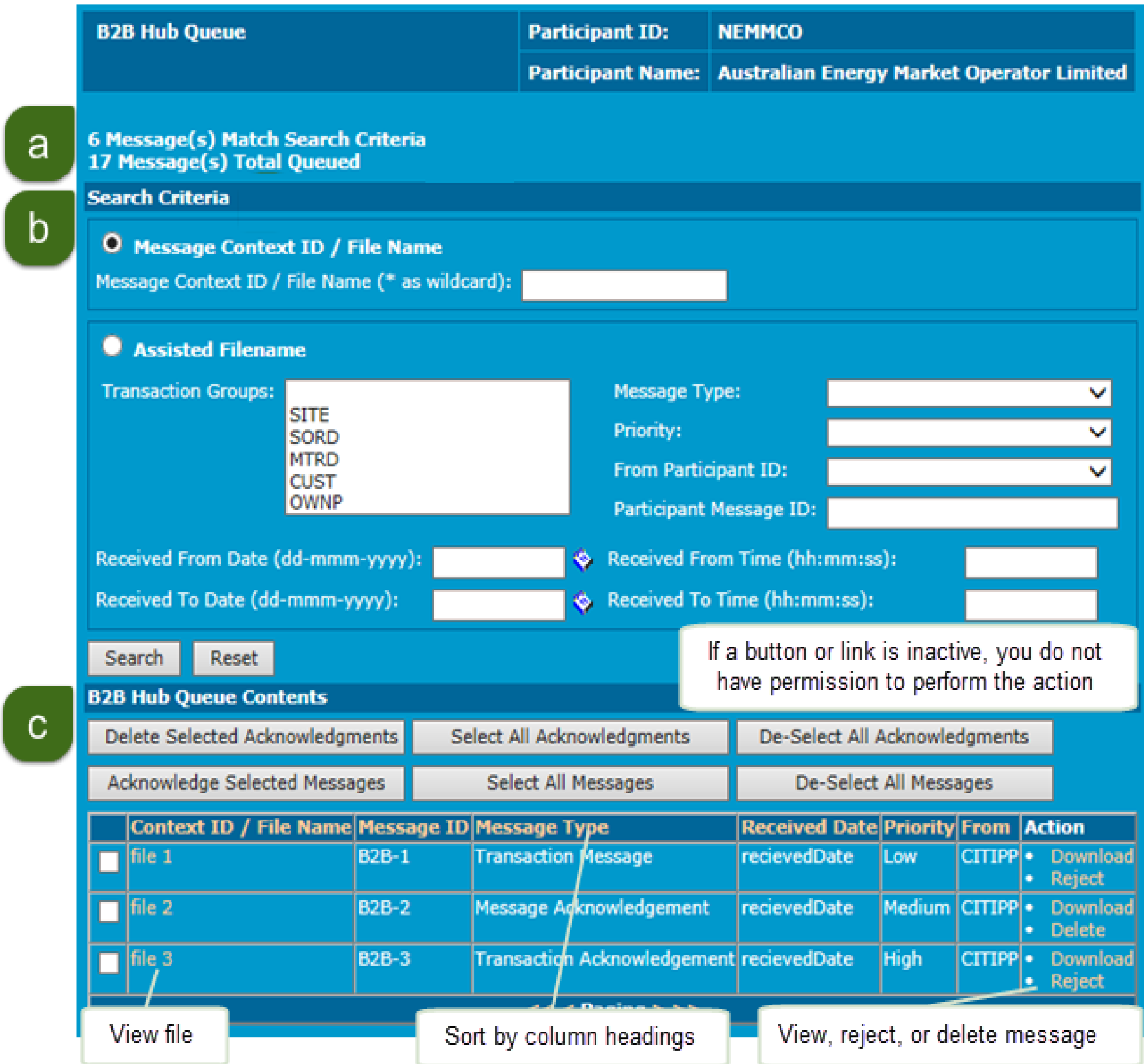


Figure 3 B2B Hub Queue interface



Next you can:

a. Sort messages. For help see Figure 3 above

b. Click the Context ID / File Name to view the message. For help, see Figure 3 above.

c. Select files by either: Placing a tick next to the filename (☑), clicking Select All to select all files, clicking De-select All to untick selected files. For help, see Access the B2B hub queue on the previous page.

d. View a file by clicking the filename in the Filename column. For help, see Access the B2B hub queue on page 25.

e. Download or acknowledgement a message on page 29.

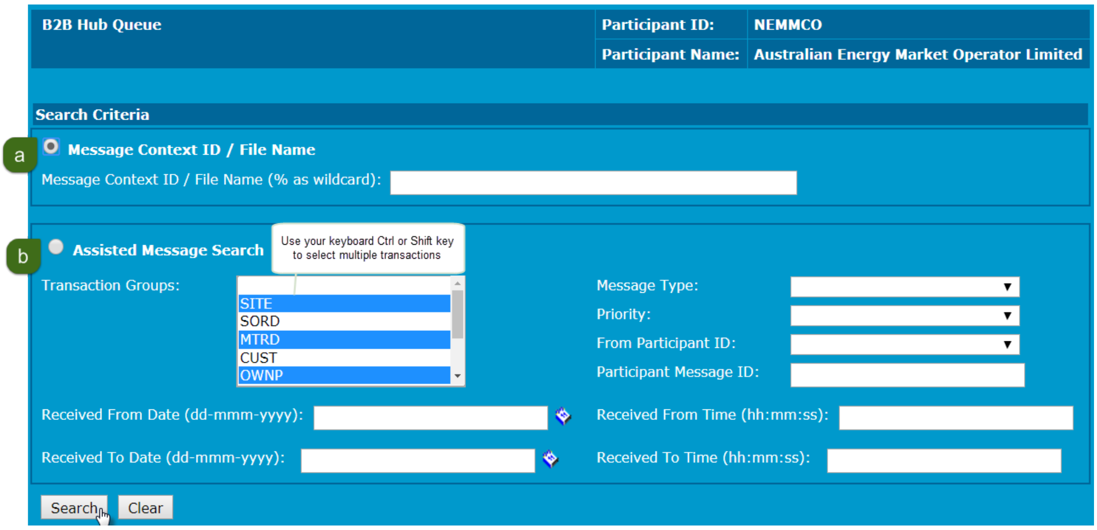
f. Acknowledge or reject messages on page 30.

g. Delete messages or acknowledgements on page 32.

Search the B2B hub queue

1. Access the B2B hub queue for help, see page Page 25.
2. Select your search type, either:
   a. Message Context ID / File Name: type a regular expression to match the target filename.
   b. Assisted Message Search: Used to search for specific criteria: Transaction Group, Message Type, Priority, Participant ID, and received dates.

> A blank field acts as a wildcard. For example, a blank Transaction Group field has the effect of searching all transaction groups.



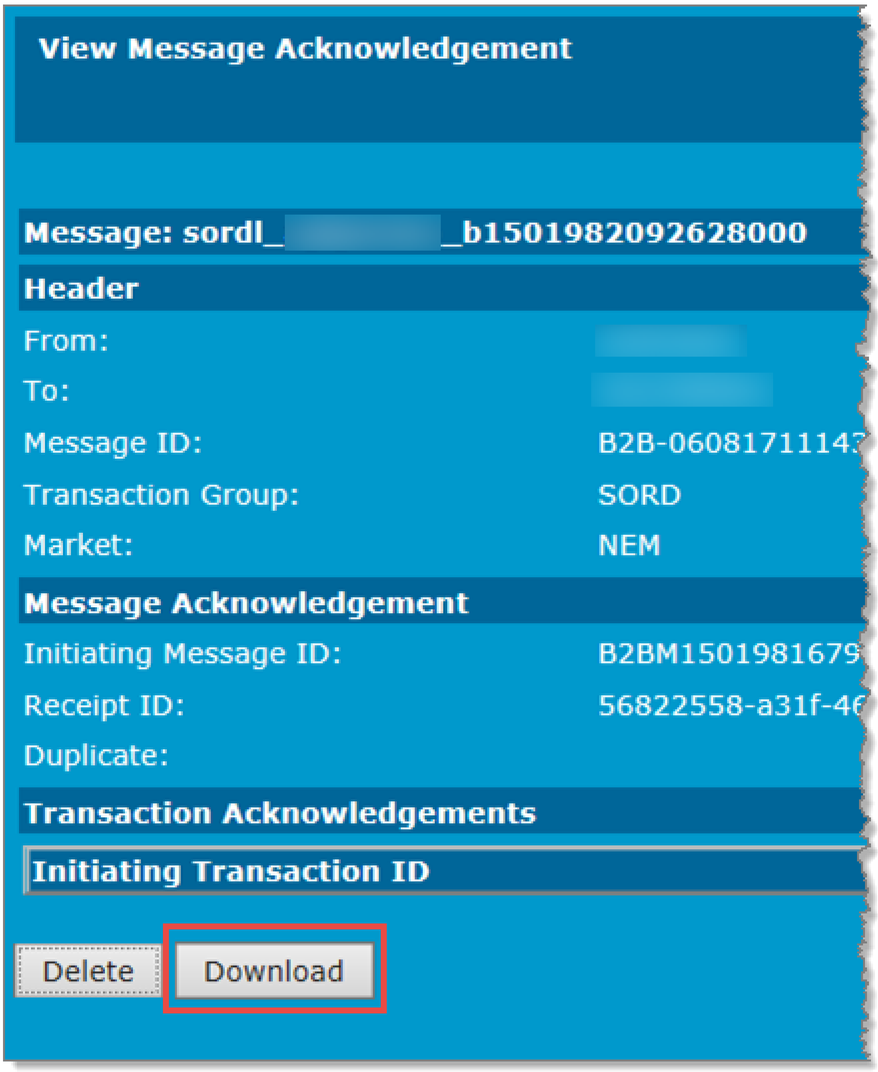
3. Click Search. To clear all fields and sort orders, click Clear.
4. The received messages or acknowledgements display in Message Context ID ascending order. Use the column headings to sort the results. For help, see Figure 3 on page 26.

If you see a similar message: Your search will return more than nnn results. Please refine your search criteria to return a smaller result set, you have more than 600 search results. You need to narrow your search criteria.

5. Next do one of the following:
   a. Sort messages. For help see Figure 3 on page 26
   b. Click the Context ID / File Name to view the message. For help, see Figure 3 on page 26.
   c. Select files by either: Placing a tick next to the filename (☑), clicking Select All to select all files, clicking De-select All to untick selected files. For help, see Access the B2B hub queue on page 25.
   d. View a file by clicking the filename in the Filename column. For help, see Access the B2B hub queue on page 25.
   e. Download or acknowledgement a message on the next page.
   f. Acknowledge or reject messages on page 30.
   g. Delete messages or acknowledgements on page 32.

Download or acknowledgement a message

1. Search for the message. For help, see page Page 27.
2. In the search results, do one of the following:
   a. Click Download in the Action column.
   b. Click the Context ID / File Name to view the message and then click Download.
   For help, see Figure 3 on page 26.

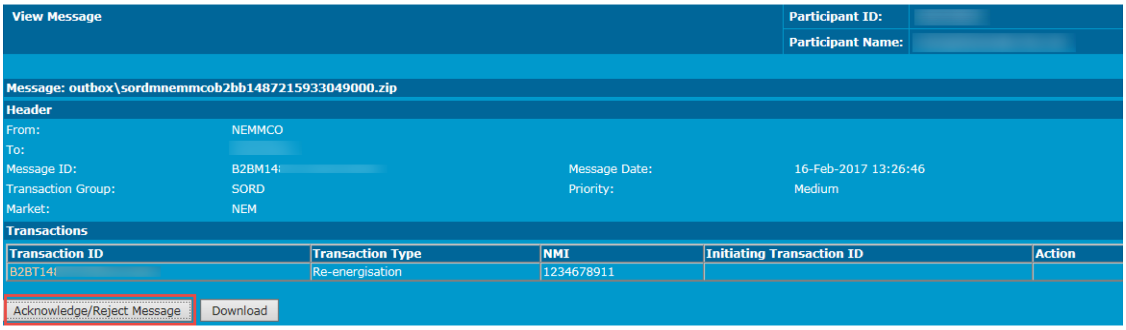


Acknowledge or reject messages

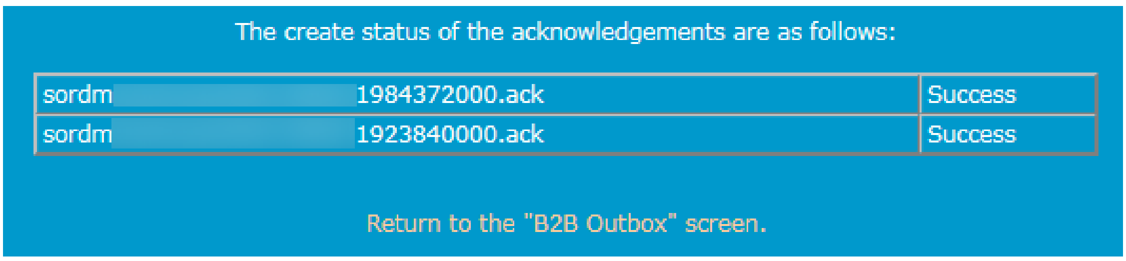
Participant Users with the correct access rights can accept or reject B2B Hub Queue messages.

Acknowledge a single message

1. Search for the message. For help, see Search the B2B hub queue on page 27.
2. In the B2B Hub Queue Contents section, click the Context ID / File Name. For help, see above.
3. In the View Message interface, click Acknowledge/Reject Message.



4. A message displays advising of success or failure, for example: SORD Participant ID B2B-1234 Success.

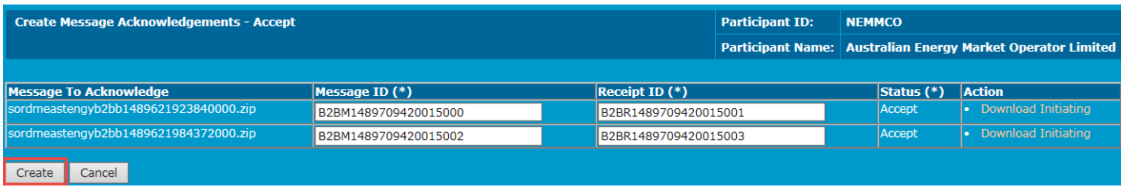


Acknowledge several messages

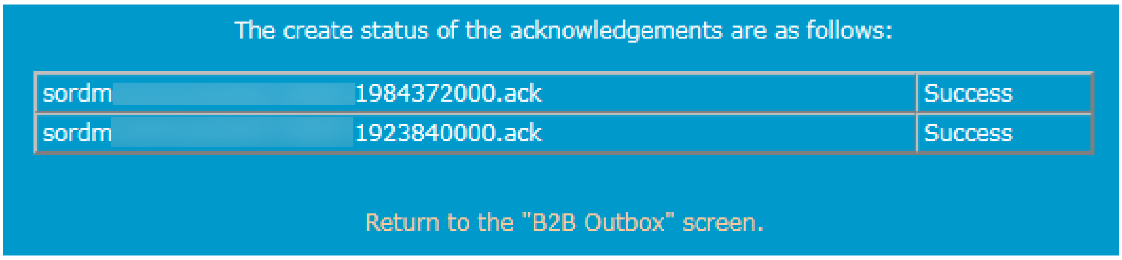
1. Search for the message. For help, see Search the B2B hub queue on page 27.

2. In the B2B Hub Queue Contents section, next to the messages to acknowledge, select the check boxes and click Acknowledge Selected Messages. For help, see on the previous page.

3. In the Create Message Acknowledgement - Accept interface, click Create.



4. Validation is performed and a message displays advising of success or failure.

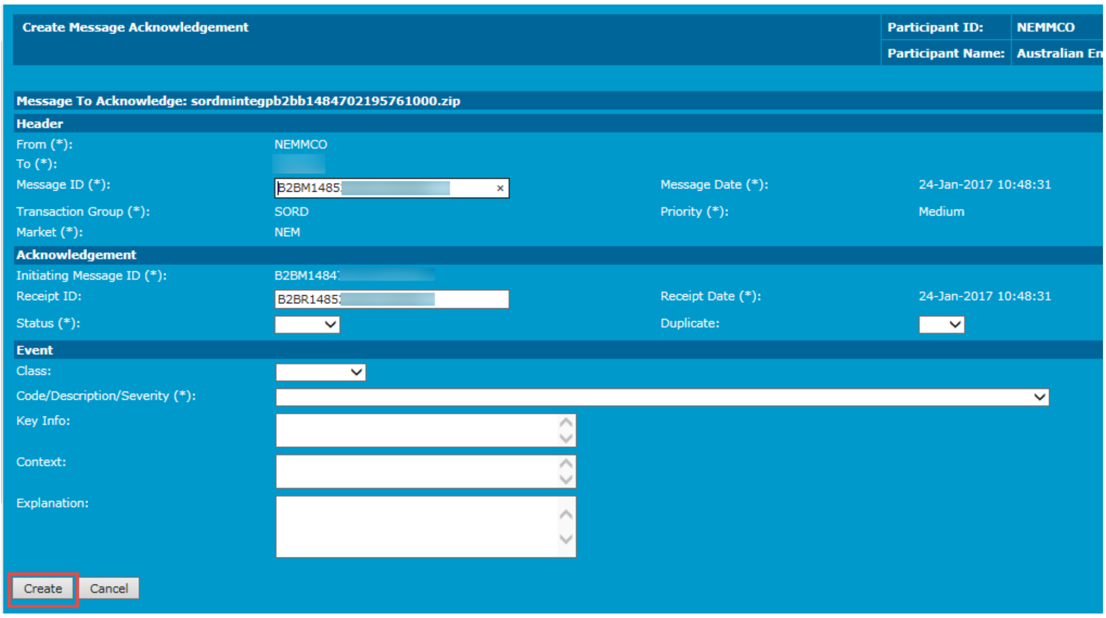


Reject a single message

1. Search for the message. For help, see Search the B2B hub queue on page 27.

2. In the B2B Hub Queue Contents section, in the Action column, click Reject. For help, see on the previous page.

3. In the Create Message Acknowledgements interface, click Create.



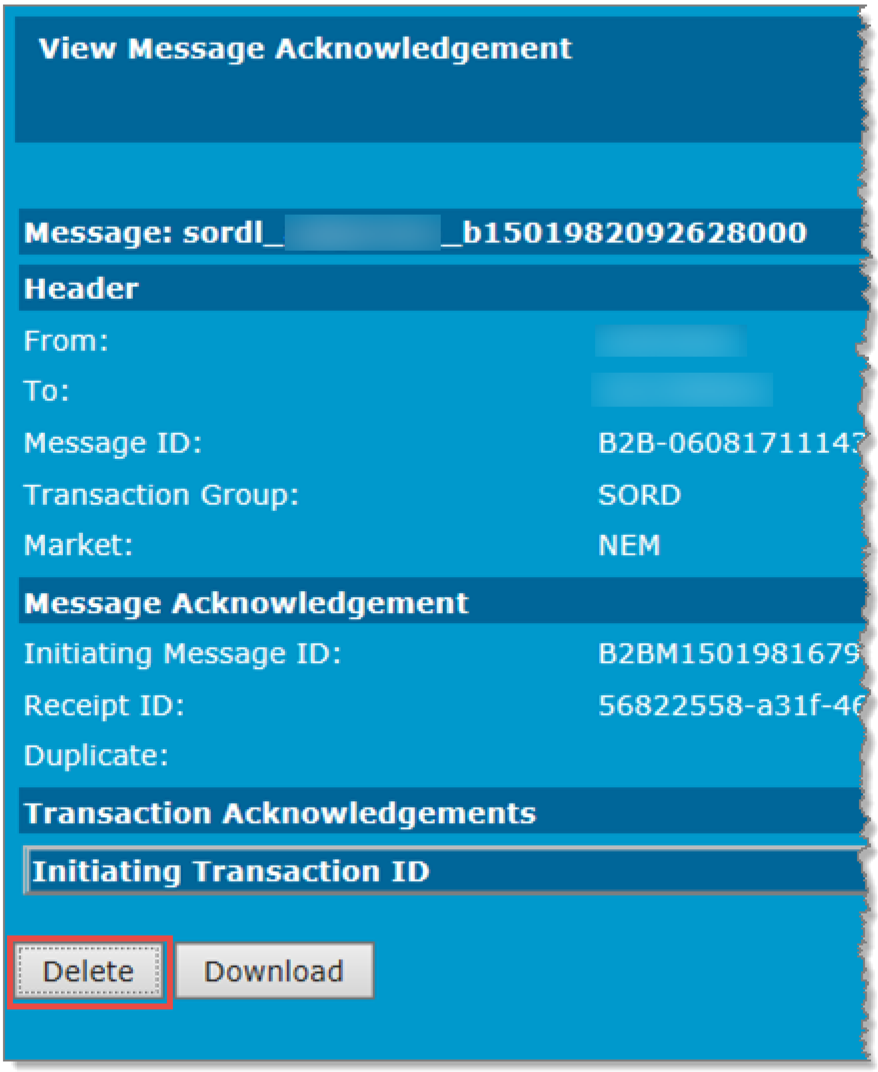
4. Validation is performed and a message displays advising of success or failure.

Delete messages or acknowledgements

Participant Users with the correct access rights can delete B2B Hub Queue messages.

Delete a single message or acknowledgement

1. Search for the message. For help, see Search the B2B hub queue on page 27.
2. Click the Context ID / File Name to view the message. For help, see above.
3. Click Delete.
   If you cannot see the Delete button speak with your company's Participant Administrator for access.



4. Validation is performed and a message displays advising of success or failure.

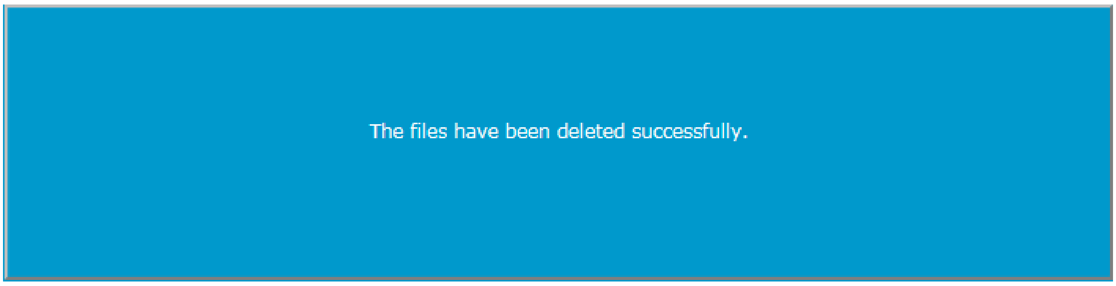
Delete several acknowledgements

1. Search for the message. For help, see Search the B2B hub queue on page 27.
2. In the B2B Hub Queue Contents section, next to the messages to delete, select the check boxes and click Delete Selected Acknowledgements. For help, see on the previous page.

3. Validation is performed and a message displays advising of success or failure.

Delete several messages or acknowledgements

1. Search for the messages. For help, see Search the B2B hub queue on page 27.
2. In the B2B Hub Queue Contents section, select all the messages you want to delete. For help, see on page 32.
3. Click Delete Selected Acknowledgements.
   If you cannot see the Delete button speak with your company's Participant Administrator for access.
4. A message displays advising of success or failure.



B2B archive

About B2B archive

Once a .ZIP file in the B2B outbox is acknowledged, the B2B handlers move the file into the B2B Archive directory. The B2B Archive has sort order capabilities but not searching capabilities like the B2B Inbox and B2B Outbox. Access to the archive is through the Participant File Server or the B2B Browser in the MSATS web portal.

B2B Archive user rights access

For access to the B2B Archive, Participant Administrators select the B2B Directory Inbox and Outbox Archive entities in the Administration >Maintain Rights menu.

Browsing the B2B archive

There is a hierarchy when browsing through the B2B Archive. At the top of this hierarchy is the Year folder under the Filename column. This is the top level of the B2B Archive folder and contains archives for previous years. Archive files are generally available for a period of 13 months. Only the B2B Archive can contain a zip file with multiple files.

To browse the B2B archive:

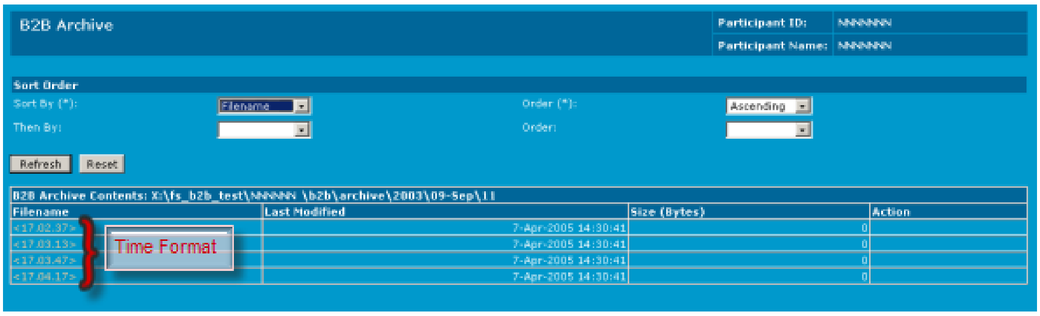
1. On the main menu, click B2B Browser and then click B2B Archive.

2. The B2B Archive interface displays, select the sort order and click Refresh. Click Reset to clear all fields and start again.

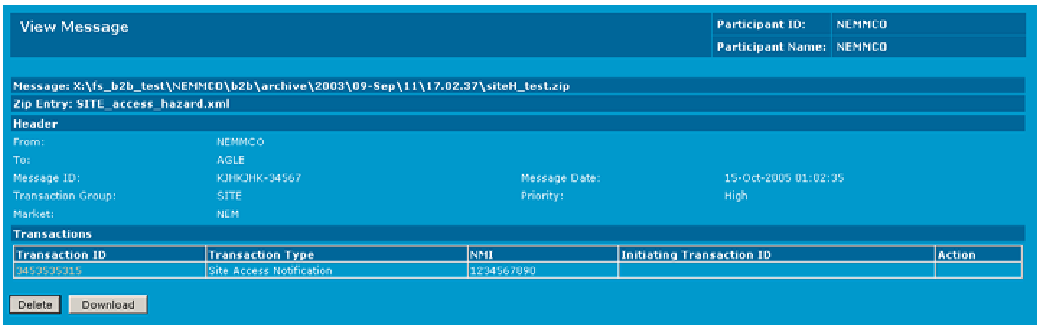
Viewing and downloading files

To view files:

1. Click the filename in the Filename column and navigate until filename displays with a time format.



After clicking the filename, you will see information on the file selected. The information is split into two sections: Header and Transaction.The Header section displays the information on the message header, and the Transaction section displays the transactions contained within that particular message in a table format.



2. In the Transaction table, click the Transaction ID link to view the details of that transaction.The information is split into the Header and the Details for the particular transaction type.

   Download a file by either (only available to users with appropriate access rights):

- Clicking Download next to the required file in the Action column.
- Viewing the file and clicking Download from the View Message Acknowledgement interface.

Deleting files

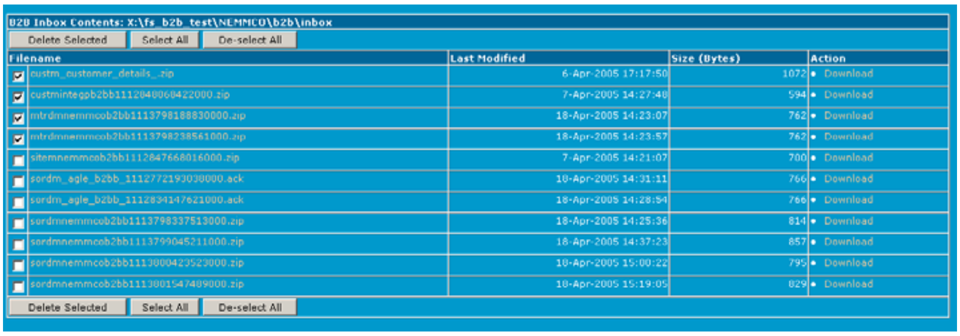
Users with appropriate MSATS access right can delete files from their B2B Inbox directories. Note that only files in the B2B Inbox can be deleted.

There are two ways you can delete files:

- Delete an individual file after viewing the file.
- Delete a collection / set of files after searching for files.

To delete a collection of files from the search result table:

1. On the search result table, there are three buttons: Delete Selected, Select All and De select All.
   Use Select All to check all the files in the table for deletion. Alternatively, you can manually check the files that you would like to delete.
   Use De select All to uncheck all the selected files.

2. After checking the files you would like to delete, click Delete Selected.
3. After clicking Delete Selected, a page displaying the file(s) that you have chosen for deletion appears. Click Delete to confirm deletion.
   A confirmation message displays upon successful deletion of the file(s).

B2B inbox archive

When the first level acknowledgement (ac1) takes place in the B2B Inbox or Participant API, it is archived into the B2B Inbox Archive folder. Access to the Inbox Archive is through the Participant File Server or the B2B Browser in the MSATS web portal.

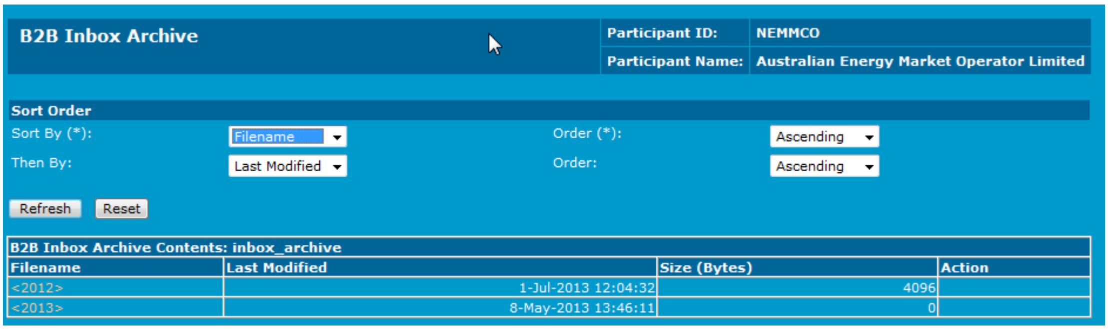
B2B inbox archive user rights access

For access to the B2B Inbox Archive, Participant Administrators select the B2B Directory Inbox Archive entity in the Administration >Maintain Rights menu.

Browsing the B2B inbox archive

There is a hierarchy when browsing through the B2B Inbox Archive. At the top of this hierarchy is the Year folder under the Filename column. This is the top level of the archive folder and contains archives for previous years. Archive files are generally available for a period of 13 months. Only the B2B Archive can contain a .zip file with multiple files.

1. On the main menu, click B2B Browser and then click B2B Inbox Archive.
2. The B2B Inbox Archive interface displays, select your required sort order and click Refresh. Click Reset to clear all fields and start again.



3. Download a file by either:

- Clicking Download next to the required file in the Action column.
- Viewing the file and clicking Download from the View Message interface.

New transaction

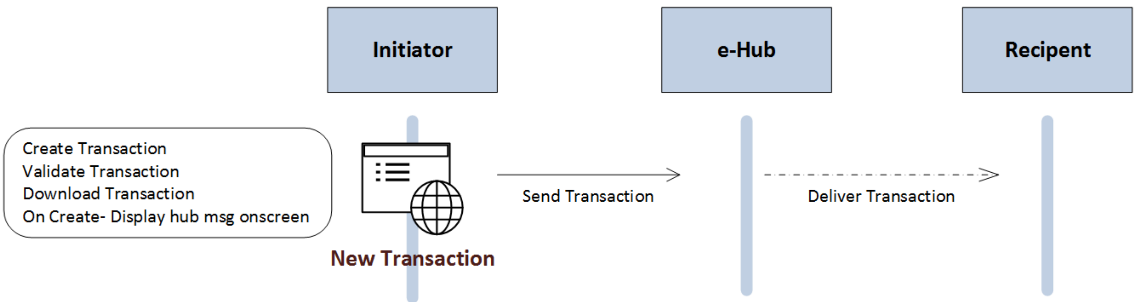
Participant Users with the appropriate access can create new B2B transactions using the B2B Browser.

For participants using the FTP Protocol, the transaction is automatically zipped and placed in the B2B Inbox ready for sending to the Recipient.

For participants using the API Protocol the transaction is sent via an API endpoint to the Recipient.

B2B E-Hub Initiators with the appropriate access can create new B2B Retail Transactions using the New Transaction interface.

For help with transaction types and participant combinations, see B2B Transactions and Participants in the B2B Guide.

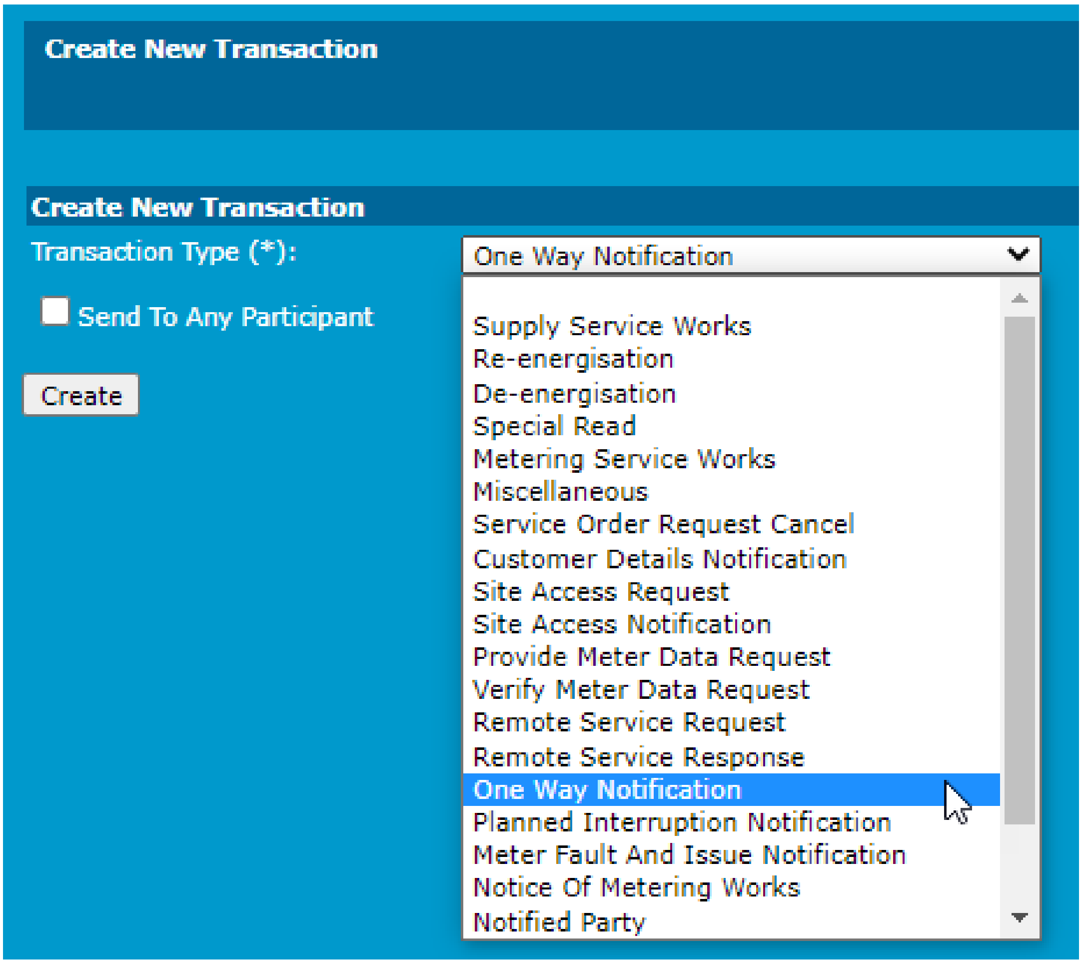


Creating a new transaction

Service Order Request interfaces such as Create Transaction - Service Order Request Supply Abolishment (see New transaction above) include the optional sections, Customer Contact Name and Business Contact Name. To ensure the aseXML is valid, you can complete either one of these sections, but not both (see New transaction above). Otherwise, leave the sections blank.

To create a new transaction for any transaction type:

1. On the main menu, click B2B Browser and then click New Transaction.
2. The Create New Transaction interface displays. Click the Transaction Type drop-down arrow and select a transaction type from the list (this is a required field), and then click Create.
   This example uses the One Way Notification transaction.



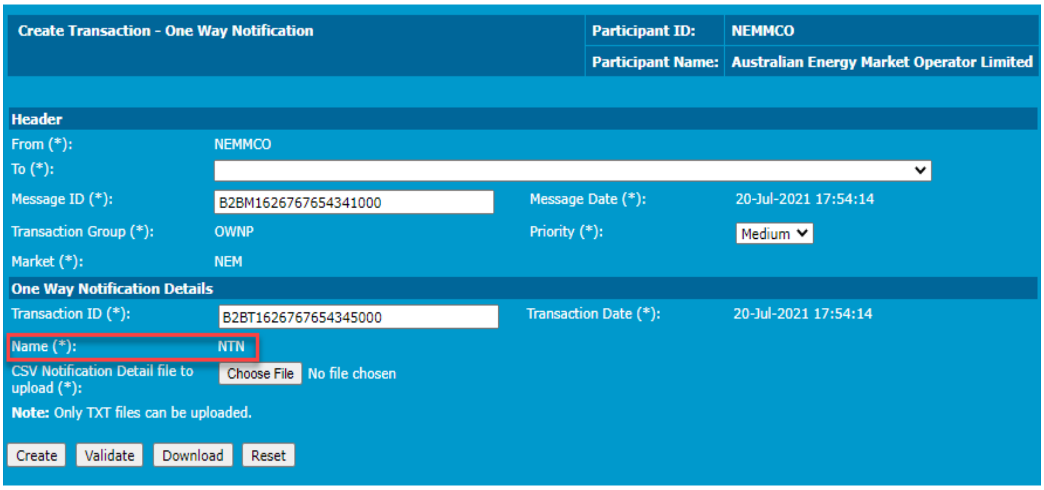
3. The selected transaction type form displays. Complete all required fields marked with an asterisk* and any other relevant fields.

a. The To field is the Recipient. The drop-down list is populated with participants who, based on their role, can receive this transaction type. For example for the Transaction type **Re-energisation Service Orders**, Participant IDs with the role LNSP or MPB or RP display. For the full list, see New transaction on page 41.

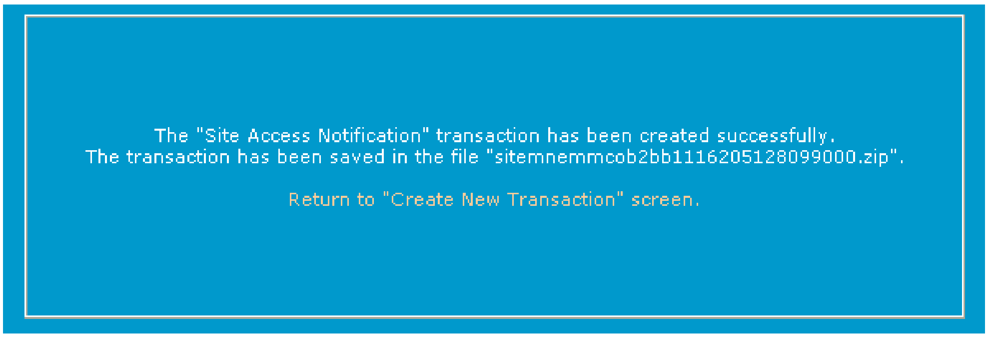
b. The message type, NTN in the Name field is used to facilitate the ability for a Distribution Network Service Provider (DNSP) to inform a Financially Responsible Market Participants (FRMP) of a proposed network tariff change in advance of that network tariff becoming effective on the connection point. This ensures the FRMP can fulfil their regulatory obligations towards customers, and negotiate new retail contracts based on the proposed network tariff.

4. Next, click one of the following options:

   - Create - to create the transaction and place it in your B2B Inbox. If any values are invalid, a list of errors is displayed. Fix the errors and click Create again.
   - Validate - to validate the data entered. If any values or required fields are invalid, a list of errors is displayed.
   - Download - to download the transaction as a .zip file.
   - Reset - To clear the form and start again.



5. A confirmation message displays when a successful transaction completes, otherwise you may see a list of error messages and why the validation failed.



To create another transaction, click **Return to Create New Transaction interface**.

New transaction user rights access

For access to create new transactions, Participant Administrators select from the following entities in the Administration >Maintain Rights menu:

B2B Trans Acknowledgement
B2B Trans Customer Details Notification
B2B Life Support Notification
B2B Life Support Request
B2B Meter Fault And Issue Notification
B2B Notice Of Metering Works

B2B Notified Party
B2B Trans One Way Notification
B2B Peer To Peer
B2B Planned Interruption Notification
B2B Trans Provide Meter Data Request
B2B Remote Service Request
B2B Remote Service Response
B2B Trans Site Access Notification
B2B Site Access Request
B2B Trans Site Address Notification
B2B Trans Service Order Request Adds and Alts
B2B Trans Service Order Request Allocation NMI
B2B Trans Cancel Service Order Request
B2B Trans Service Order Request De-energisation
B2B Trans Service Order Request Deenergisation Local Meter Disconnection
B2B Trans Service Order Request Deenergisation Recipient Discretion
B2B Trans Service Order Request Deenergisation Remote
B2B Trans Service Order Request Deenergisation Remove Fuse

B2B Trans Service Order Response
B2B Trans Service Order Request Meter Investigation
B2B Trans Service Order Request Miscellaneous
B2B Trans Service Order Request Meter Reconfiguration
B2B Trans Service Order Request Meter Service Works Controlled Load
B2B Trans Service Order Request Meter Service Works Exchange Meter
B2B Trans Service Order Request Meter Service Works Install Meter
B2B Trans Service Order Request Meter Service Works Move Meter
B2B Trans Service Order Request Meter Service Works Remove Meter
B2B Trans Service Order Request New Connection
B2B Trans Service Order Request New Connection Supply Alteration
B2B Trans Service Order Request New Connection Temporary
B2B Trans Service Order Request New Connection Temporary in Permanent
B2B Trans Service Order Request Re-energisation
B2B Trans Service Order Request Re-Energisation After Disconnection For Non-Payment
B2B Trans Service Order Request Re-Energisation Move-in
B2B Trans Service Order Request Re-Energisation New Reading Required

B2B Trans Service Order Request Re-Energisation Physical Visit
B2B Trans Service Order Request Re-Energisation Recipient Discretion
B2B Trans Service Order Request Re-Energisation Retro Move-in
B2B Trans Service Order Request Supply Abolishment
B2B Trans Service Order Request Special Read
B2B Trans Service Order Request Special Read Check
B2B Trans Service Order Request Special Read Final
B2B Trans Service Order Request Tariff Change
B2B Trans Service Order Request Temporary Isolation
B2B Trans Service Order Request Temporary Isolation Group
B2B Trans Verify Meter Data Request

Upload file

B2B E-Hub Initiators with the appropriate access rights, use the Upload File interface to upload .zip and .XML files directly to their B2B Inbox based on their protocol preference:

- **API** indicates the Initiator elects to send all Transaction Group messages using the API Protocol.
- **FTP** indicates the Initiator elects to send all Transaction Group messages using the FTP Hokey-pokey Protocol.

Upload File user rights access

For access to Upload File, Participant Administrators select the B2B folder Inbox entity in the Administration >Maintain Rights menu.

Zip files

Uploading .zip files is as easy as selecting the file to upload directly to your B2B Inbox.

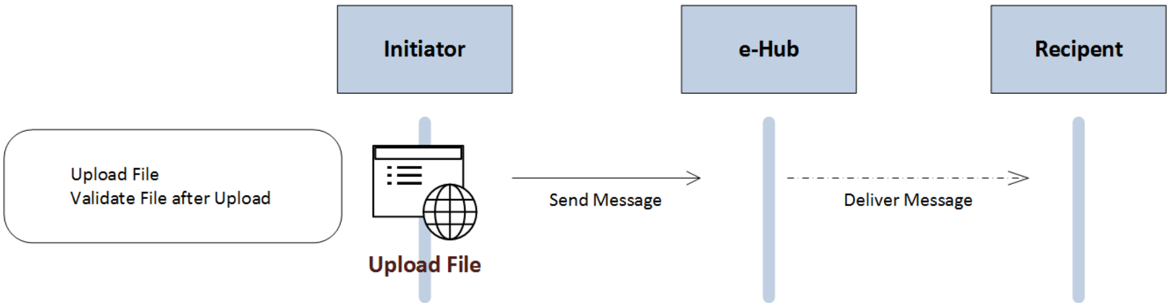
XML files

Uploading .XML files involves an extra step because the contents are loaded into the Create New Transaction interface, after, the steps are the same as creating a new transaction, see New transaction on page 41.

File name / Context ID

The participant nominated file name becomes the message's Message Context ID.

Figure 4 Upload file process

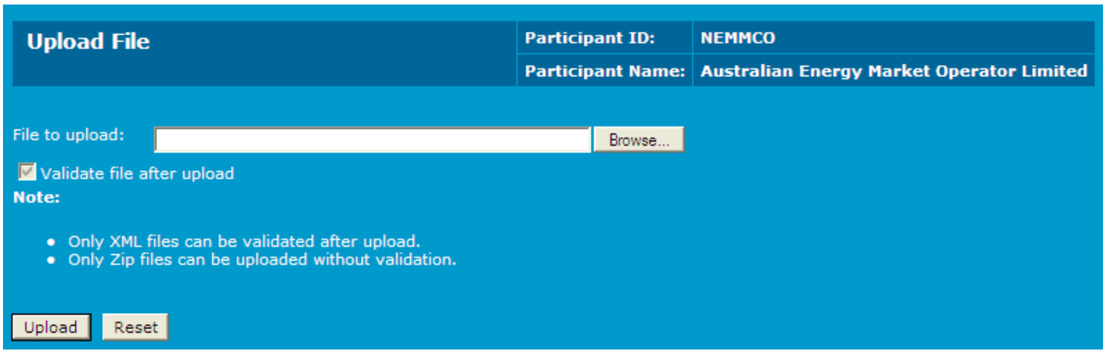


The B2B procedures mandate the first four characters of a message file name must correspond to the messages Transaction Group, either MTRD, MRSR, SORD, CUST, SITE, OWNP, OWNX, NPNX, PTPE. For more details, see the B2B Procedures.

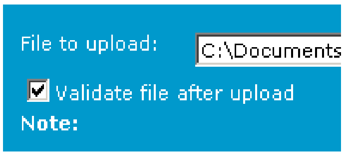
Upload a file

To upload a file:

1. On the main menu, click B2B Browser and then click Upload File.
2. The Upload File interface displays. Click Browse and locate the file for uploading.



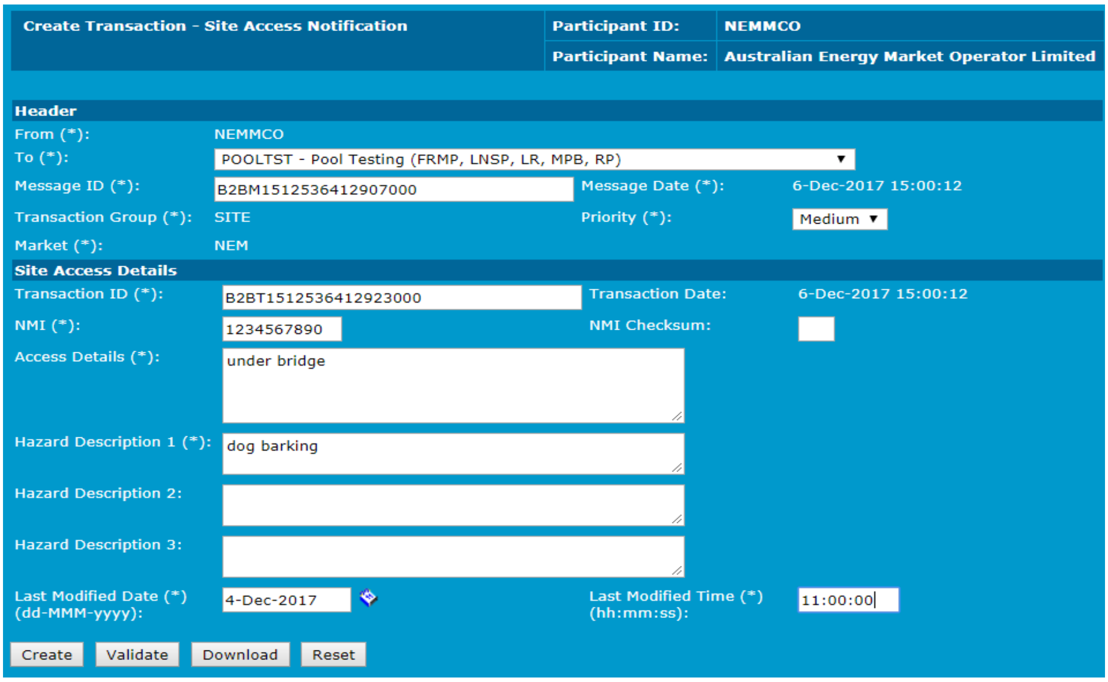
3. If you are uploading an .XML file and it requires validation after upload, click the Validate file after upload check box and then click Upload.



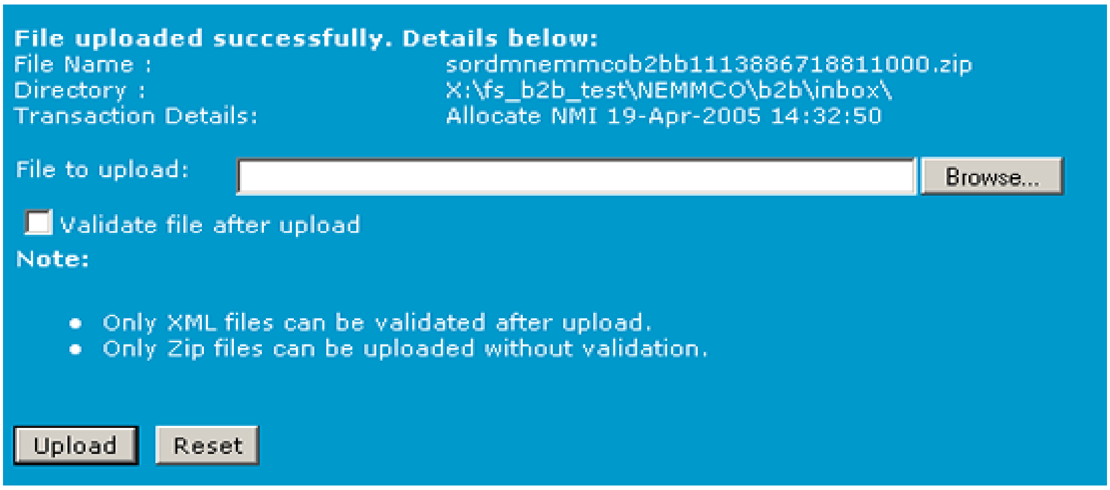
> If you upload a .zip file, it uploads directly into your Inbox, without displaying the Create Transaction interface.

4. Click Reset to clear the file to upload.

If you uploaded an .XML file, the Create Transaction form displays with the file information. If required, you can edit the values.



5. A confirmation message displays if the .zip file uploads successfully.



An error message displays if the .zip file already exists or there was an error uploading.

6. After uploading, browse your B2B Inbox to check for the uploaded file.
7. When the message is delivered to the Recipient, the .zip file is archived to your B2B Inbox Archive. For help, see B2B inbox archive on page 39

Search hub trans log

The B2B Transaction log records all the transactions the B2B Hub has handled; this includes all messages and transaction acknowledgements. Participant Users with appropriate access can search the transaction log for specific transactions.

Searching is accomplished by defining the appropriate search criteria in the Search Transaction Log interface. The values you enter are used to extract the specific transactions matching your values.

Search trans log user rights access

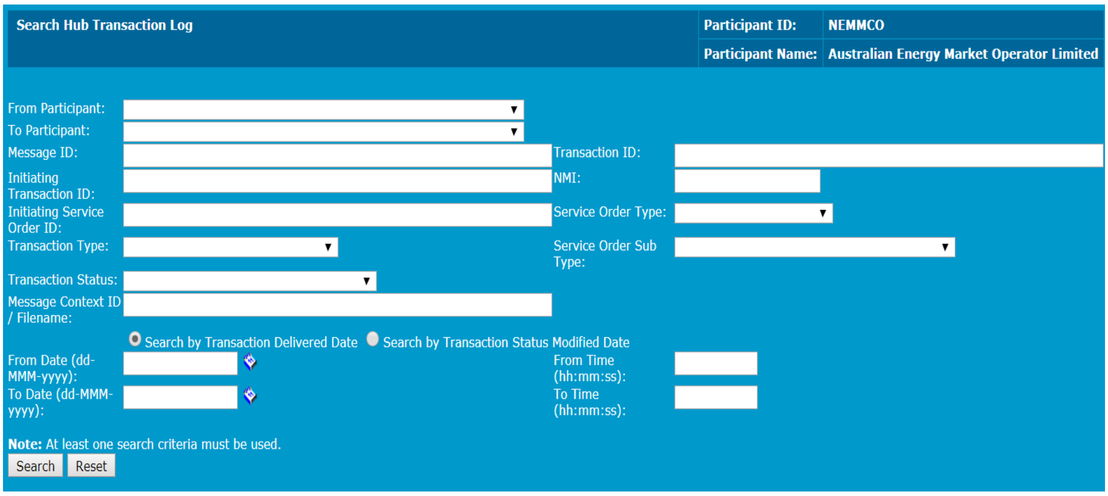
For access to Search Trans Log, Participant Administrators select the B2B Hub Transaction Log entity in the Administration >Maintain Rights menu.

Searching the transaction log

To search the transaction log:

1. On the main menu, click B2B Browser and then click Search Trans Log.
2. The Search Transaction Log interface displays. Complete the relevant fields and click Search. For help, see Search Transaction Log fields on page 55.

Click Reset to start again.



3. The Search Transaction Log Results interface displays (for help understanding the fields see “Search Transaction Log Results on page 57) and select one of the following options:

   - Click Download Result as a CSV file at the bottom of the page to display the result in a spreadsheet format.
   - Click View in the Action column to see the message details, Viewing a transaction on page 58.
   - Click Search Related Record in the Action column to see information for related records. The link only displays for Service Order Request transaction types and searches for corresponding Service Order Response transactions, Searching related records on page 60.

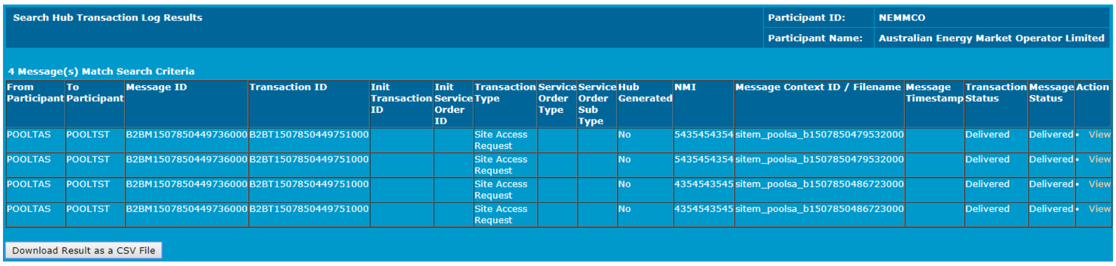


Table 1 Search Transaction Log fields

Field	Description
From Participant	The Participant initiating the transaction
To Participant	The Recipient receiving the transaction.
Message ID	The ID of the message. This field supports SQL patterns (wildcards). This means that you can use % for wildcard and any other valid SQL constructs.
Initiating Transaction ID	The initiating transaction ID contained in the transaction. This field supports SQL patterns (wildcards). This means that you can use % for wildcard and any other valid SQL constructs.
Initiating Service Order ID	The ID of the initiating Service Order to view Option 1 and 2 Notified Party transactions raised against a Service Order Request. This field supports SQL patterns (wildcards). This means that you can use % for wildcard and any other valid SQL constructs.
Transaction Type	The transaction type of the transaction.
Transaction Status	The delivery status. For example 'Completed', 'Rejected' etc.
Message Context ID / Filename	The Message Context ID or filename of the transaction. This field supports SQL patterns but does not support the zip file extension.

Field	Description
Transaction ID	The transaction id of the transaction. This field supports SQL patterns (wildcards). This means that you can use % for wildcard and any other valid SQL constructs.
NMI	The NMI contained in the transaction.
Service Order Type	Select a service order type from the drop-down list.
Service Order Subtype	The subtype of the transaction.
Search by Transaction delivered date	Select to search by transaction delivered date.
Search by Transaction modified date	Select to search by transaction modified date.
From Date	Date when the Transaction was initially received by the e-Hub.
To Date	Date when the Transaction status was last updated based on an action by a participant.
From Time	Time when the Transaction was initially received by the e-Hub.
To Time	Time when the Transaction status was last updated based on an action by a participant.

Table 2 Search Transaction Log Results

Field	Description
From Participant	The Participant initiating the transaction.
To Participant	The Recipient receiving the transaction.
Message ID	The ID of the message.
Transaction ID	The transaction ID.
Init Transaction ID	The initiating transaction ID.
Init Service Order ID	The initiating service order ID
Transaction Type	The transaction type.
Service Order Type	The transaction subtype.
Hub Generated	Flags if the message was generated by the e-Hub: ◦ **Y** - Generated by the e-Hub (e.g. Initiator or Notified Party). ◦ **N** - Received from the participant or is a shell record.
NMI	The NMI of the transaction.
Message Context ID / Filename	The Context ID or Filename that contained the message.
Message Timestamp	When the file was written to the Participant’s B2B Hub inbox.

Field	Description
Transaction Status	The current status of the Message/Transaction either: ◦ **COM** - Completed ◦ **D** - Delivered ◦ **REJ** - Transaction Rejected ◦ **TAWR** - Transaction Acked Waiting for Response
Message Status	Indicates if a message is awaiting an action by the receiving party or an action is complete: ◦ **D** - Delivered ◦ **MA** - Message Acked ◦ **REJ** - Message Rejected by Recipient ◦ **SC** - Sync Completed
Action	Click to view the transaction details.

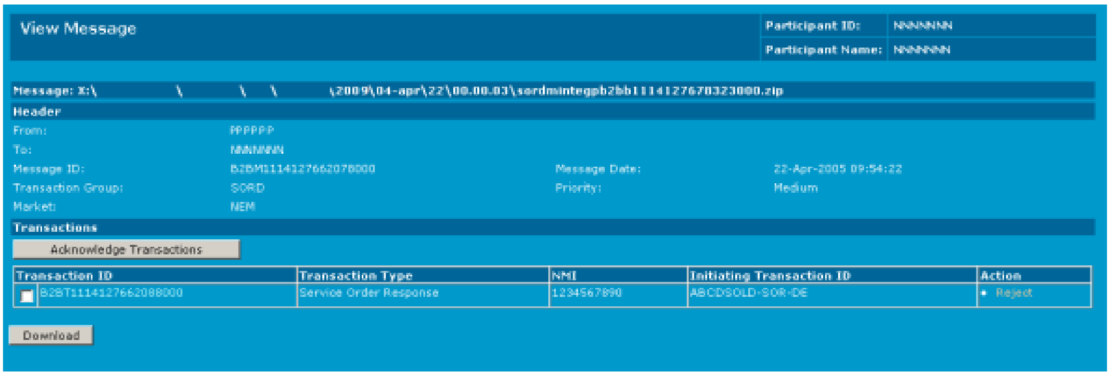
Viewing a transaction

You cannot view Transaction details for historical Service Order types in the B2B Browser. To view details for these transactions: from the Participant File Server folder, open the actual XML file. In the Service Order Type drop-down list, historical Service Order transactions have a [H] label.

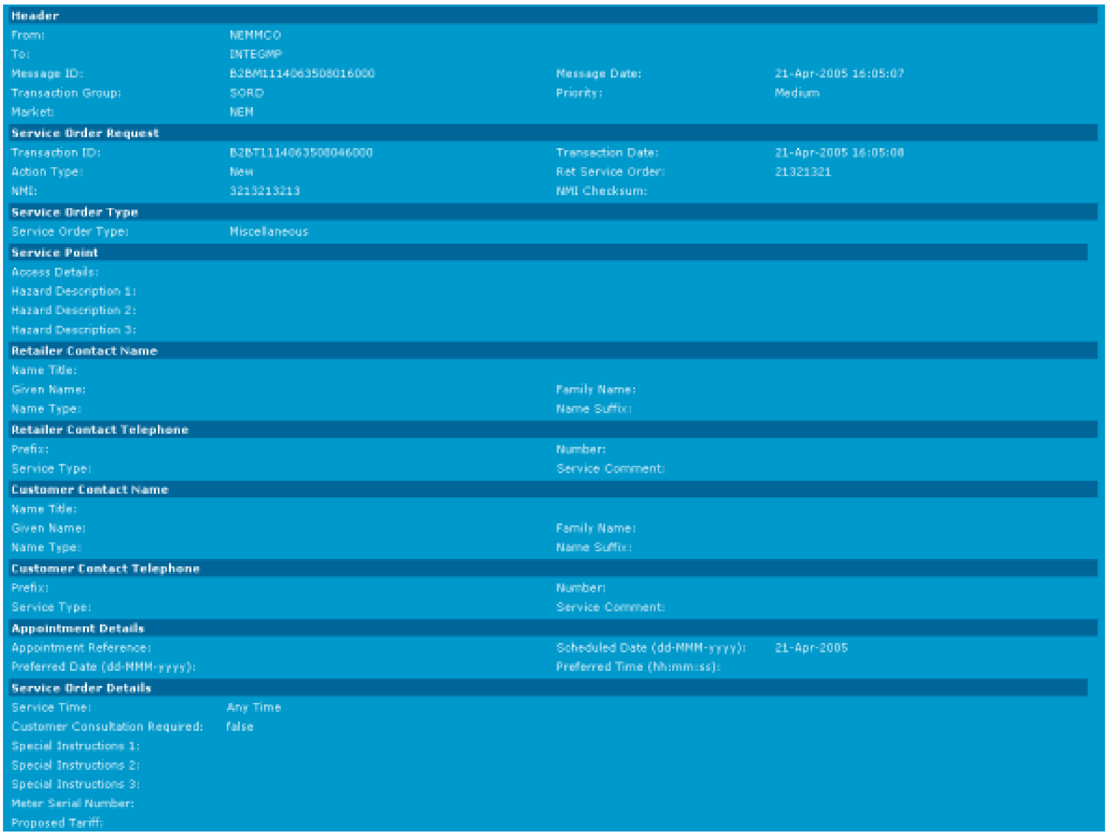
To view a transaction:

1. Follow the instructions for Searching the transaction log on page 53.
2. Click View to display the View Message interface and select from the following options:
   - Click Download in the Action column to download the message.
   - Click Acknowledge Transaction to acknowledge the message.
   - Click Reject in the Action column to reject the message.

- Select a Transaction ID, Transaction Type, NMI or Initiating Transaction ID to view further information.



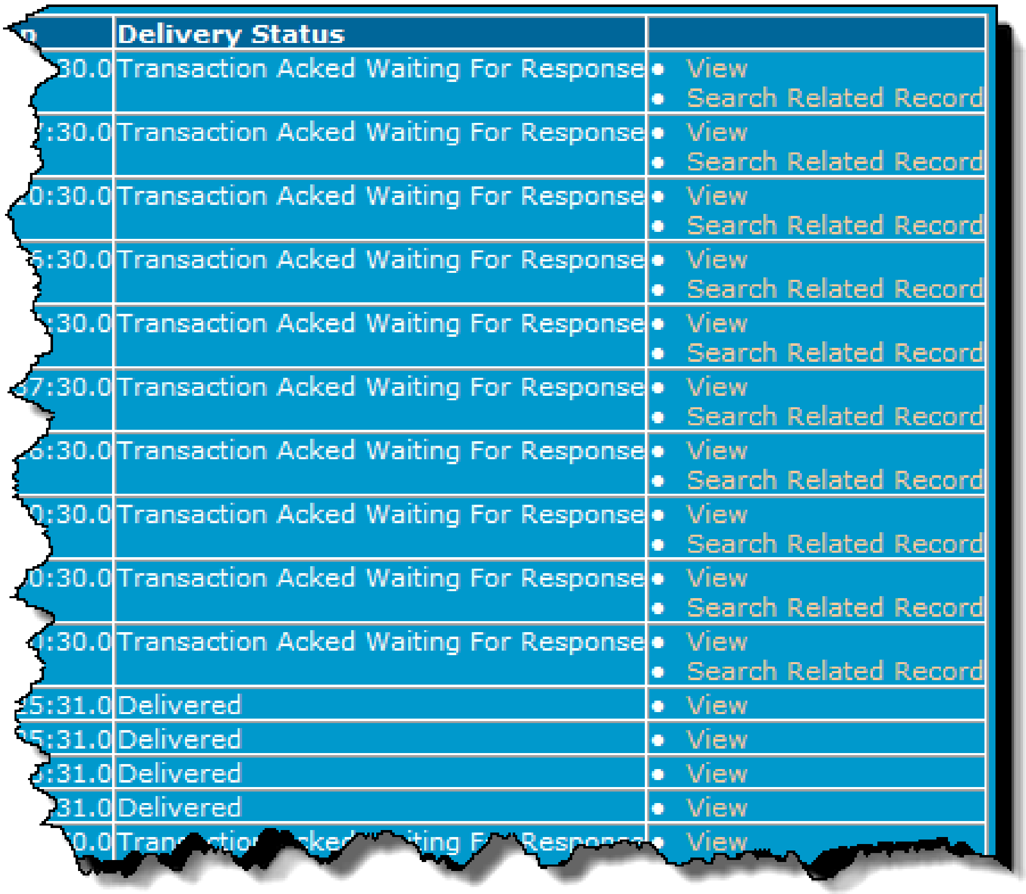
For example, click the Transaction ID link to view the message information.



Searching related records

To search related records (searches for corresponding Service Order Response transactions types only):

1. Follow the instructions for Searching the transaction log on page 53
2. Click Search Related Record.



n	Delivery Status	
30.0	Transaction Acked Waiting For Response	• View • Search Related Record
7:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
0:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
5:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
7:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
6:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
0:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
0:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
4:30.0	Transaction Acked Waiting For Response	• View • Search Related Record
5:31.0	Delivered	• View
5:31.0	Delivered	• View
:31.0	Delivered	• View
31.0	Delivered	• View
0.0	Transaction Acked Waiting For Response	• View

3. The related Service Order Response for that Service Order Request

displays.

From Participant	To Participant	Message Id	Transaction Id	Init Transaction Id	Transaction Type	Transaction Subtype	NMI	Filename	File Timestamp	Delivery Status
EGP	NEMMCO	B2BM1114127662077000	B2BT1114127662087000	ABCDSOLD-SOR-AAA	Service Order Response		1234567890	sordmintegpb2bb1114127678321000.zip	2005-04-22 09:54:39.0	Complete

Download Result as a CSV File

Search activity log

The Activity Log records actions within the B2B Browser, Participant Users with appropriate access can search the activity log using specific criteria. The following actions are logged:

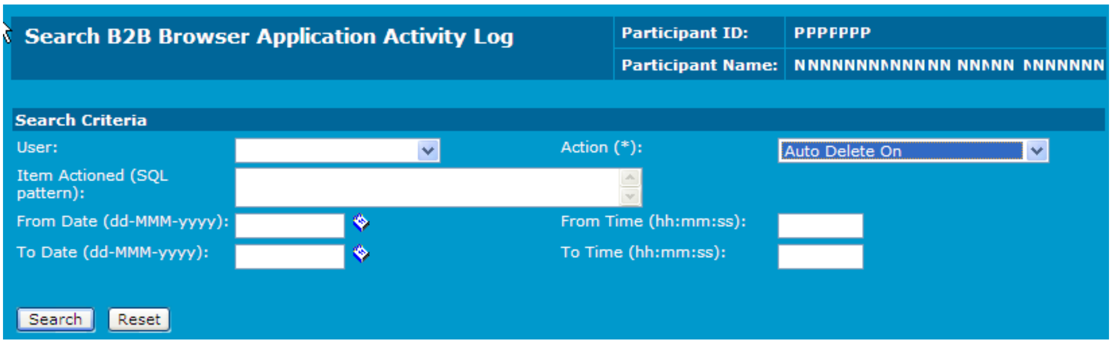
- Upload File
- Create Transaction
- Create Acknowledgement
- Delete File
- Download File
- Auto Delete On
- Auto Delete Off
- Toggle Modify Functionality On
- Toggle Modify Functionality Off
- Search Transaction Log
- View B2B Hub Dashboard
- View Flow Control Data

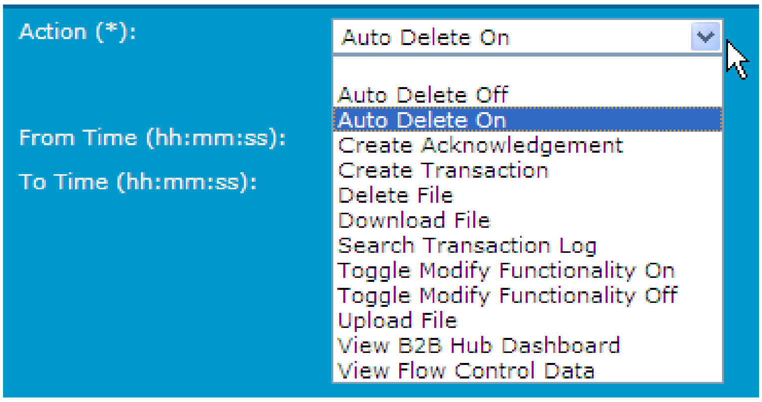
Search activity log user rights access

For access to Search Activity Log, Participant Administrators select the B2B Activity Log entity in the Administration >Maintain Rights menu.

Searching the activity log

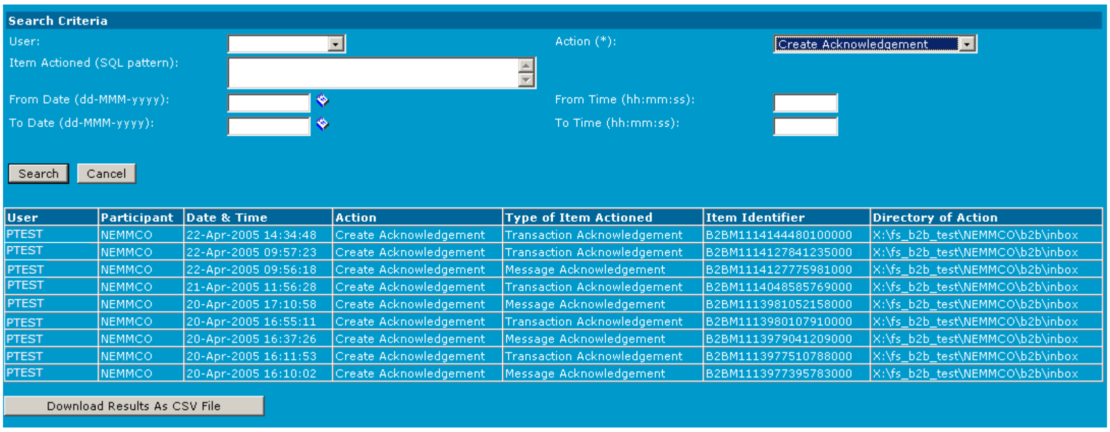
1. On the main menu, click B2B Browser and then click Search Activity Log.
2. The Search B2B Browser Application Activity Log interface displays. Click the Action drop-down arrow and select from list (this is a required field).





3. Complete any other optional fields and click Search. For help, see Optional search fields on the next page.
4. The search results display. For help understanding the search result fields, see Search result fields on page 65.

Participants can only search their own actions.



Search Criteria

User:

Action (*): Create Acknowledgement

Item Actioned (SQL pattern):

From Date (dd-MMM-yyyy):

From Time (hh:mm:ss):

To Date (dd-MMM-yyyy):

To Time (hh:mm:ss):

Search Cancel

User	Participant	Date & Time	Action	Type of Item Actioned	Item Identifier	Directory of Action
PTEST	NEMMCO	22-Apr-2005 14:34:48	Create Acknowledgement	Transaction Acknowledgement	B2BM1114144480100000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	22-Apr-2005 09:57:23	Create Acknowledgement	Transaction Acknowledgement	B2BM1114127841235000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	22-Apr-2005 09:56:18	Create Acknowledgement	Message Acknowledgement	B2BM1114127775981000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	21-Apr-2005 11:56:28	Create Acknowledgement	Transaction Acknowledgement	B2BM1114048585769000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	20-Apr-2005 17:10:58	Create Acknowledgement	Message Acknowledgement	B2BM1113981052158000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	20-Apr-2005 16:55:11	Create Acknowledgement	Transaction Acknowledgement	B2BM1113980107910000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	20-Apr-2005 16:37:26	Create Acknowledgement	Message Acknowledgement	B2BM1113979041209000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	20-Apr-2005 16:11:53	Create Acknowledgement	Transaction Acknowledgement	B2BM1113977510788000	X:\fs_b2b_test\NEMMCO\b2b\inbox
PTEST	NEMMCO	20-Apr-2005 16:10:02	Create Acknowledgement	Message Acknowledgement	B2BM1113977395783000	X:\fs_b2b_test\NEMMCO\b2b\inbox

Download Results As CSV File

Table 3 Optional search fields

Field	Description
User	Select a specific user who performed the selected action (above) from the drop down menu.
Item Actioned	From the drop down menu, select the item the action was performed on. Note: the content of this field depends on the action context.
From date	The start of the date range when the action was performed. The format is dd-MMM-yyyy. (e.g. 01-Jan-2005).
To date	The end of the date range when the action was performed. The format is dd-MMM-yyyy. (e.g. 01-Jan-2005).
From time	The start of the time range when the action was performed. The format is hh:mm:ss (e.g. 10:30:00)
To time	The end of the time range when the action was performed. The format is hh:mm:ss. (e.g. 10:30:00) For this example, select the Create Acknowledgement action from the drop down menu and click Search.

Table 4 Search result fields

Column Name	Description
User	Who performed the action.
Participant	The Participant ID.
Date/time	The date and time the action was performed.
Action	The action performed.
Type of item actioned	The item that the action was performed on. This field has different content depending on the action context. Refer to the following table for further information.
Item identifier	Unique item identifier for the item actioned. This field has different content depending on the action context. Refer to the following table for further information.
folder of action	The folder where the action was performed. Note: This only applies when a file is affected, i.e. Create Transaction, Create Acknowledgement, Upload File, Download File and Delete File actions

Type Of Item Actioned and Item Identifier fields on the next page describes the type of item actioned and item identifier fields in the search criteria interface.

Table 5 Type Of Item Actioned and Item Identifier fields

Action	Type of Item Actioned	Item Identifier
Upload File	File	Filename of the uploaded file
Create Transaction	The transaction subtype.	The Transaction Id of the created transaction.
Create Acknowledgement	Transaction Acknowledgement or Message Acknowledgement	The Message Id of the acknowledgement
Delete File	File	The filename of the deleted file.
Download File	File	The filename of the downloaded file
Auto Delete On	Process	n/a
Auto Delete Off	Process	n/a
Toggle Functionality On	Process	The functionality name that was toggled on
Toggle Functionality Off	Process	The functionality name that was toggled off.
Search Transaction Log	Search	n/a
View B2B Hub Dashboard	Report	The Participant whose dashboard was viewed.
View Flow Control Data	Report	n/a

Modify functionality

The B2B Browser has a set of functionalities that Participant Administrators can turn off or on. This allows quick control over what their Participant Users can see and do in the B2B Browser.

When a function is toggled on or off, it is toggled for all users of the Participant ID. The toggling of functionality works in conjunction with MSATS user access rights. You have access to a particular functionality if you have the correct user access rights and the functionality is toggled on.

The functionalities are:

- **Delete File**
- **Upload File**
- **Create Response Message Acknowledgement**: Displays the Acknowledge and Reject actions.
- **Auto Delete From Inbox**
- **Create New Transaction**
- **Create Response Transaction**
- **Create Response Transaction Acknowledgement**
- **Upload & Validate Transaction**
- **Delete Hub Queue Message Acknowledgement**: Displays the Delete action.

This table explains the logic:

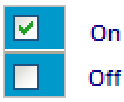
Toggle	User Rights Access	Result
On	Yes	Functionality **in** use
Off	Yes	Functionality **not** in use
On	No	Functionality **not** in use
Off	No	Functionality **not** in use

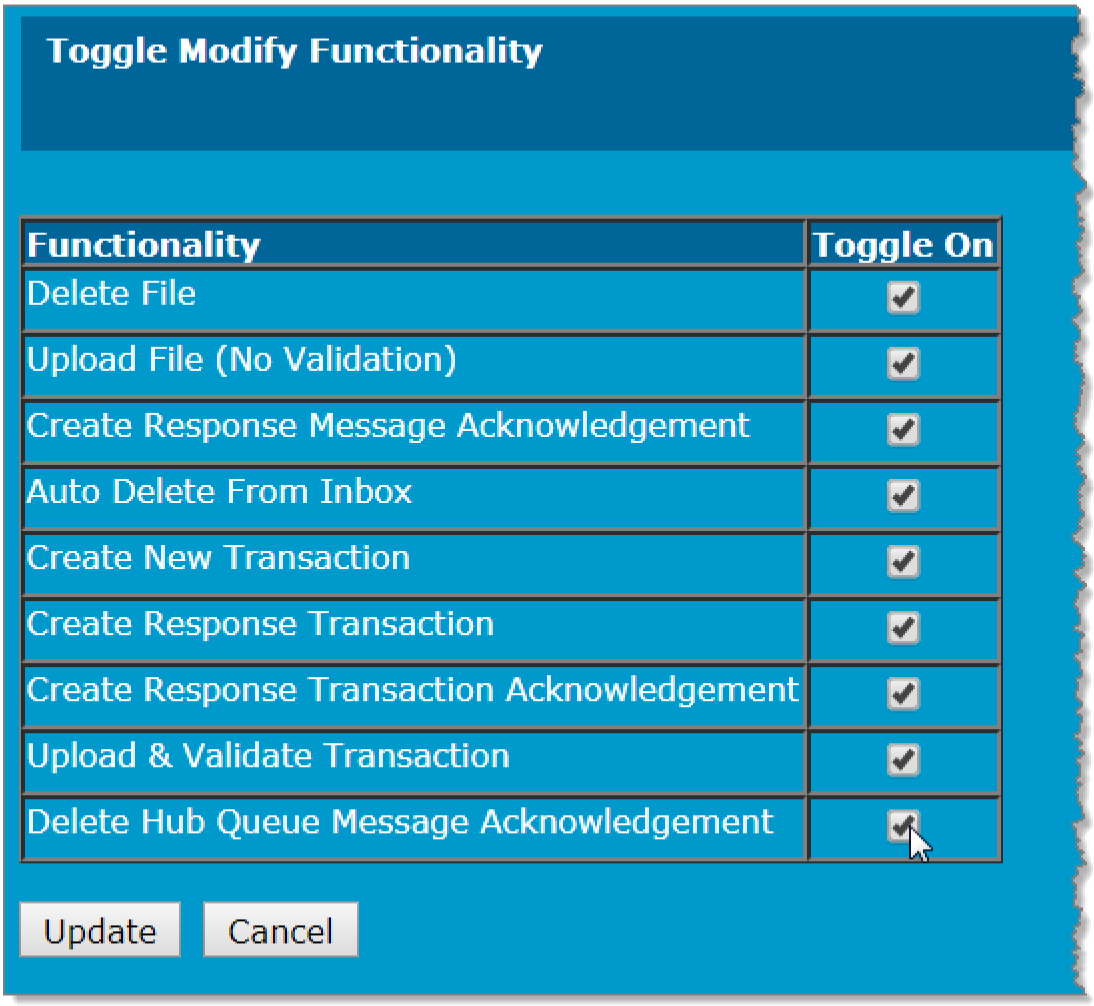
Modify functionality user rights access

For access to Modify Functionality, Participant Administrators select the B2B Toggle Modify Functionality entity in the Administration > Maintain Rights menu.

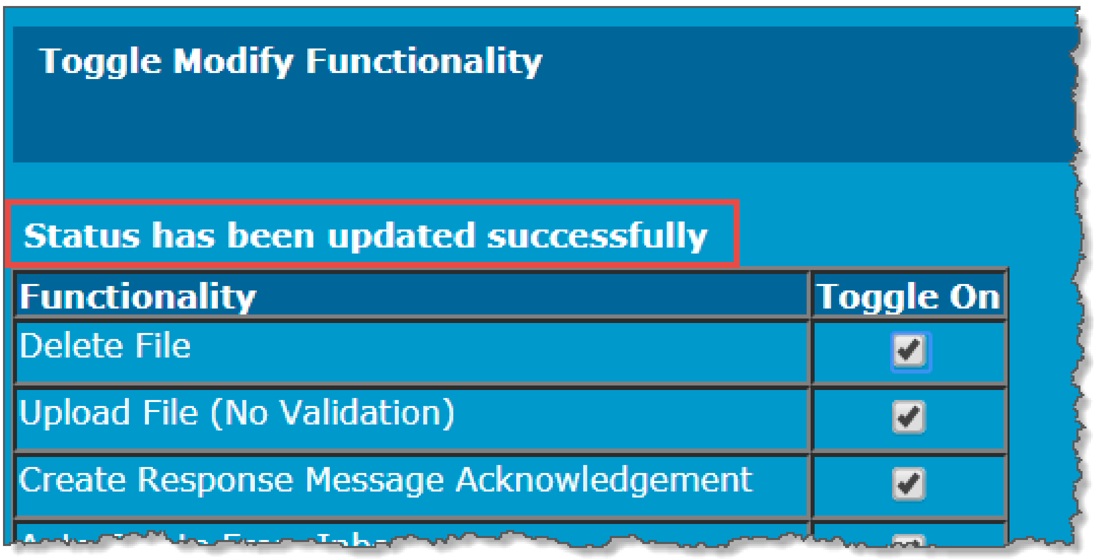
Modifying functionality

1. On the main menu, click B2B Browser and then click Modify Functionality.
2. The Toggle Modify Functionality interface displays. Click the check box to change the functionality, indicated by:





3. Click Update. A message confirming the update displays.



Flow control info

Flow control is information about water marks and stop file details for a participant. The water mark levels control the flow of files into the inbox and outbox.

The Flow Control Configuration section displays the low, warn and high water mark levels:

- If the number of unacknowledged files in an outbox exceeds the warn watermark, a warning file is sent to all participants into their Stopbox to inform them that a Participant is running behind in acknowledging files.
- If the high watermark is exceeded, the *B2B e-Hub* creates a stop file in the participants outbox and cease to deliver files to their outbox.
- When sufficient files have been acknowledged, and the number of unacknowledged files falls below the low watermark, the *B2B e-Hub* removes the stop and warning files to resume delivering files again.

The Flow Control Files section, displays the warning files and stop file information. This includes information on, the filename, the time it was last modified, the cause and the suggested action to undertake.

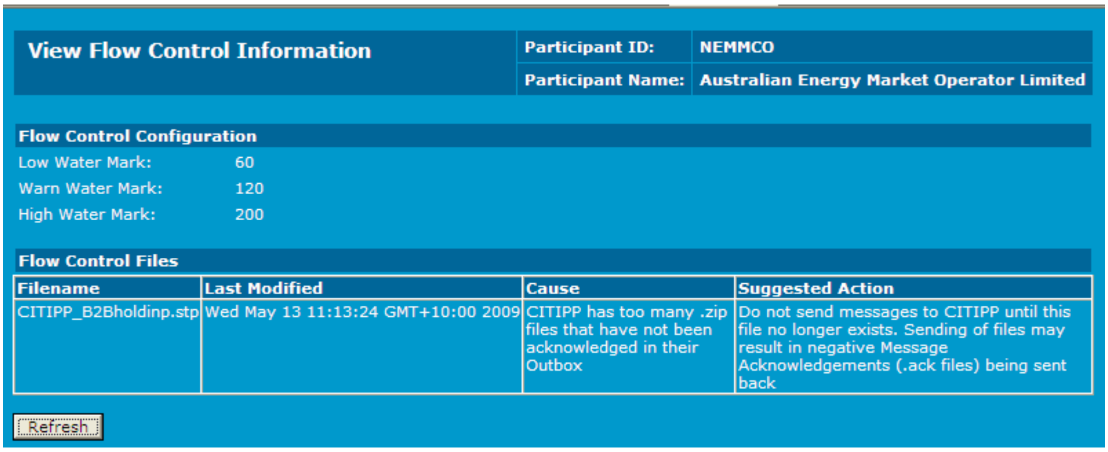
Flow control Info user rights access

For access to Flow Control Info, Participant Administrators select the B2B Flow Control Information entity in the Administration >Maintain Rights menu.

Displaying flow control information

1. On the main menu, click B2B Browser and then click Flow Control Info.

2. The View Flow Control Information interface displays with Flow Control Configuration and Flow Control Files information. Click Refresh to see the latest information available.



Auto delete status

The Auto Delete Status provides an automated process to delete .zip and .ACK files that are in the correct state. The status of the auto delete process can be viewed and turned on and off by participant users if they have the correct access rights.

The correct states are:

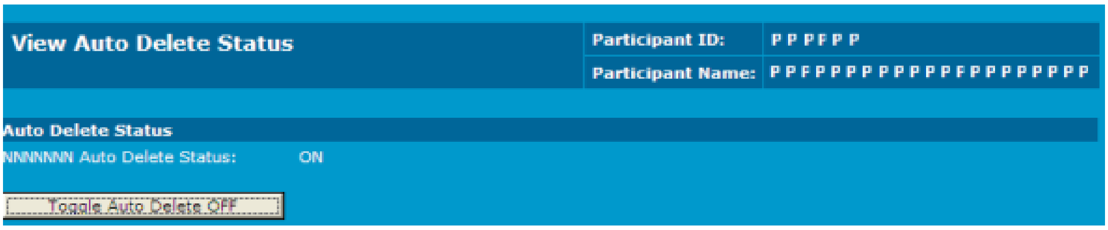
- Delete all .zip files from a participant's inbox where an .ac1 file and an .ACK file exist in the participant's outbox.
- Delete all .ACK files from a participant's inbox where there is not a corresponding .zip file in the participant's outbox.

Auto delete status user rights access

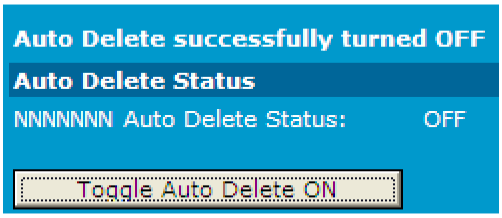
For access to Auto Delete Status, Participant Administrators select the B2B Auto Delete Status entity in the Administration >Maintain Rights menu.

Turning auto delete status on and off

1. On the main menu, click B2B Browser and then click Auto Delete Status.
2. The View Auto Delete Status interface displays with the current Auto Delete Status toggled ON. To turn the status off, click Toggle Auto Delete Off.



3. A message displays confirming that the auto delete status was successfully turned off. **Note**: The toggle button is now displayed as Toggle Auto Delete ON.



Status report

Participant Users with appropriate access can view the B2B participant status report. It has the Last Modified Date in both the B2B Inbox and outbox folders of the following:

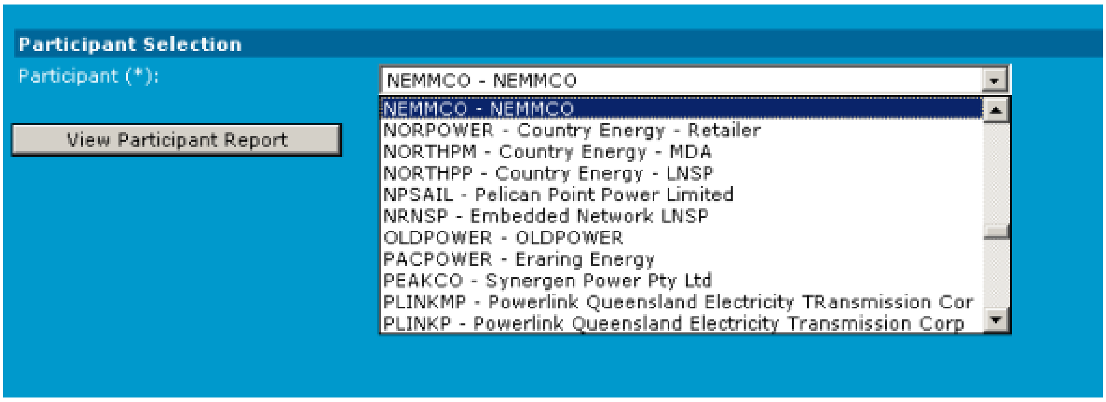
- Most recently created .zip.
- Most recently created .ACK.
- Oldest created .zip.
- Oldest created .ACK.

Status report user rights access

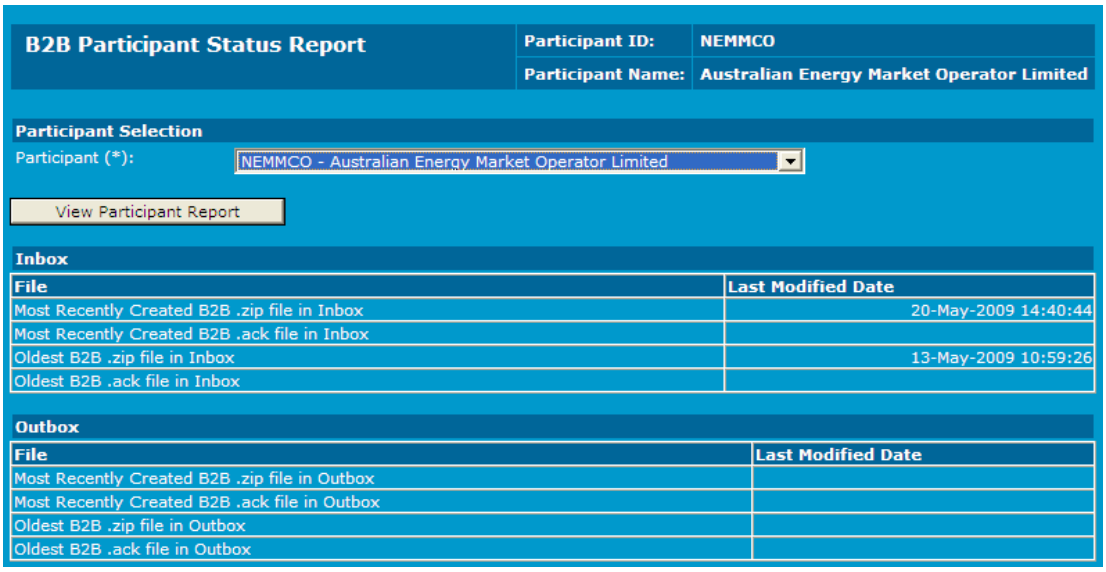
For access to the Status Report, Participant Administrators select the B2B Participant Status Report entity in the Administration >Maintain Rights menu.

Viewing the status report

1. On the main menu, click B2B Browser and then click Status Report.
2. The Participant Selection interface displays. Click the Participant drop-down arrow and select a participant from the list.
3. Click View Participant Report.



4. The B2B Participant Status Report results display the Inbox and Outbox details. If there are no .ACK or .zip files the Last Modified Date is blank.



B2B hub dashboard

The B2B Hub Dashboard status report contains the following information:

- The number of files in each state for the participant.
- The action required to move the files to the next state.
- Who is responsible for performing the next action.

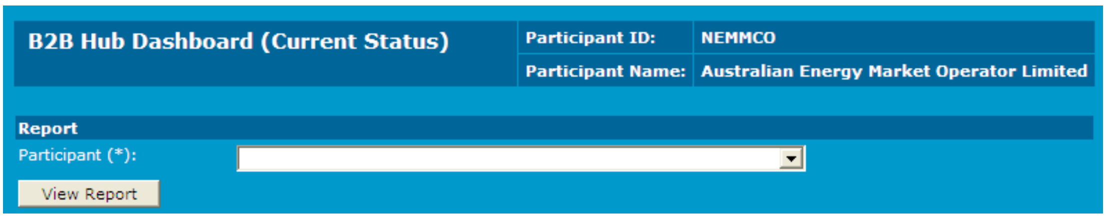
B2B hub dashboard user rights access

For access to the B2B Hub Dashboard, Participant Administrators select the B2B Hub Dashboard entity in the Administration >Maintain Rights menu.

Viewing the B2B hub dashboard

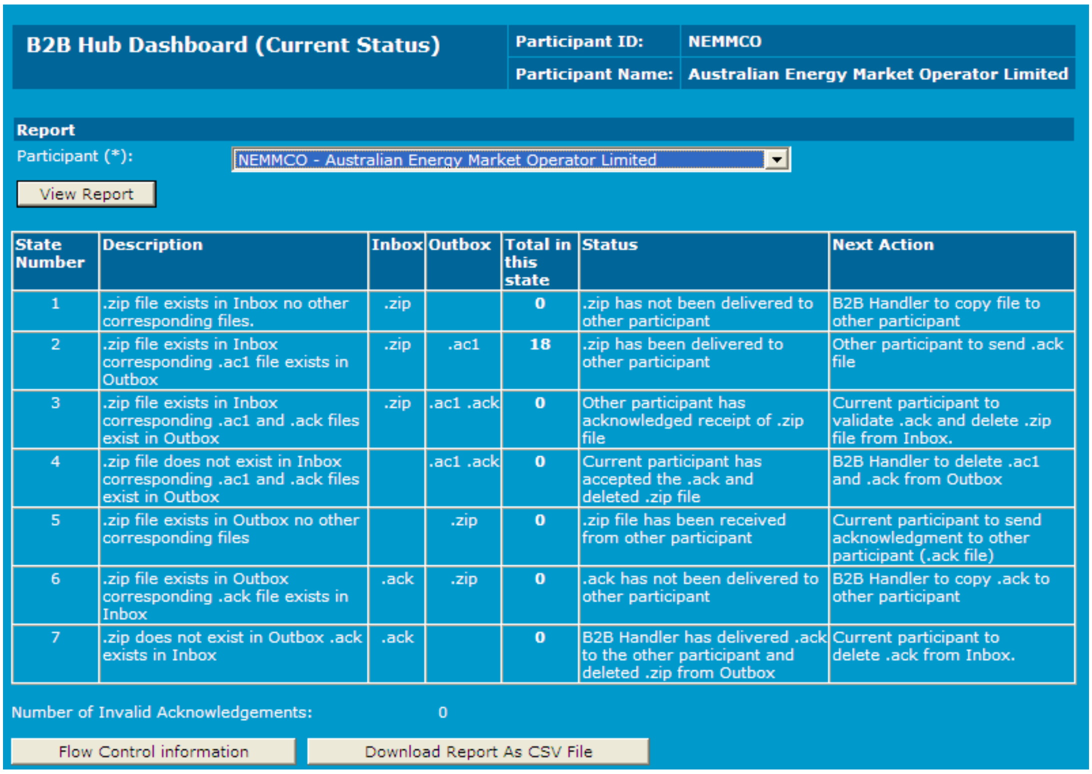
1. On the main menu, click B2B Browser and then click B2B Hub Dashboard.
2. The B2B Hub Dashboard (Current Status) interface displays. Click the Participant drop-down arrow and select a participant from the list.
3. Click View Report.

Participants can only view their own dashboard.



4. The status report displays. Do one of the following to view further information:

   - Click **Flow Control information** to display the flow control information.
   - Click **Download Report As CSV File** to download the result as a .csv file.



B2B Hub Dashboard (Current Status)

Participant ID: NEMMCO

Participant Name: Australian Energy Market Operator Limited

Report

Participant (*): NEMMCO - Australian Energy Market Operator Limited

View Report

State Number	Description	Inbox	Outbox	Total in this state	Status	Next Action
1	.zip file exists in Inbox no other corresponding files.	.zip		0	.zip has not been delivered to other participant	B2B Handler to copy file to other participant
2	.zip file exists in Inbox corresponding .ac1 file exists in Outbox	.zip	.ac1	18	.zip has been delivered to other participant	Other participant to send .ack file
3	.zip file exists in Inbox corresponding .ac1 and .ack files exist in Outbox	.zip	.ac1 .ack	0	Other participant has acknowledged receipt of .zip file	Current participant to validate .ack and delete .zip file from Inbox.
4	.zip file does not exist in Inbox corresponding .ac1 and .ack files exist in Outbox		.ac1 .ack	0	Current participant has accepted the .ack and deleted .zip file	B2B Handler to delete .ac1 and .ack from Outbox
5	.zip file exists in Outbox no other corresponding files		.zip	0	.zip file has been received from other participant	Current participant to send acknowledgment to other participant (.ack file)
6	.zip file exists in Outbox corresponding .ack file exists in Inbox	.ack	.zip	0	.ack has not been delivered to other participant	B2B Handler to copy .ack to other participant
7	.zip does not exist in Outbox .ack exists in Inbox	.ack		0	B2B Handler has delivered .ack to the other participant and deleted .zip from Outbox	Current participant to delete .ack from Inbox.

Number of Invalid Acknowledgements: 0

Flow Control information

Download Report As CSV File

B2B transforms and protocol

All B2B E-Hub Participants with access rights use the B2B Transforms and Protocol interface to:

- Nominate or change the B2B aseXML schema they want to use for receiving B2B transactions and acknowledgements.
- Select their delivery method, either FTP or API .

About B2B transforms and protocol

About transforms

AEMO applies an XML transform to change the schema release of user-selected transaction types, including their acknowledgements. Only the transaction types supported in both the currently supported and immediately superseded schema releases are available for selection, since any transaction type available in only one release of an aseXML schema is limited to that release.

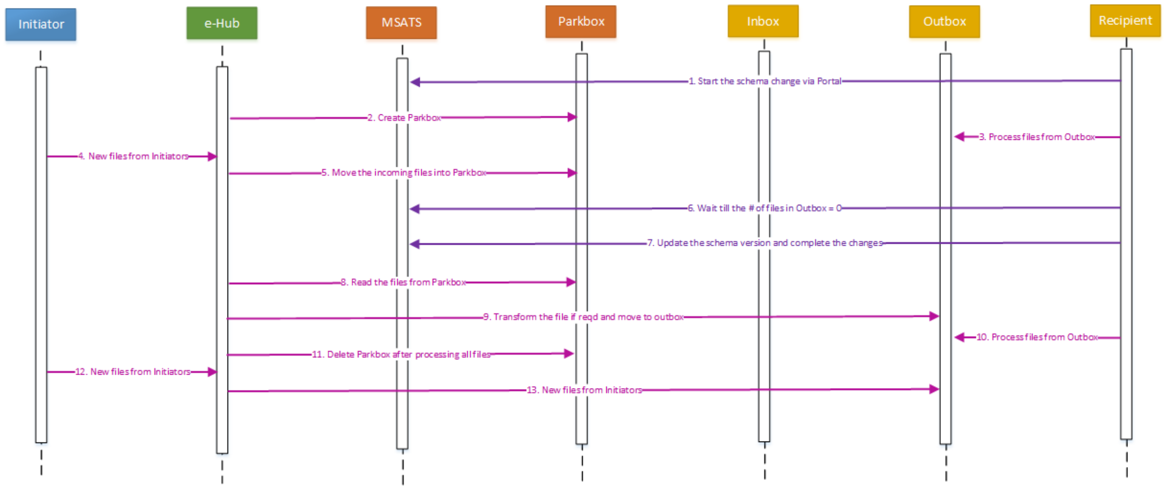
Versioning of the transaction types and the aseXML schema are different, although related. Each aseXML release has an unique identifier, being its namespace identifier (for example, xmlns="urn:aseXML:r25"). The part after the second colon in the namespace identifier is used as an abbreviation of the aseXML schema namespace identifier, since that is the part that changes from one release of aseXML schema to the next. By convention, transaction types use the abbreviation of the aseXML schema identifier when the transaction type definition last changed as the version identifier of that transaction type. This means the two identifiers are related, look the same, and both can be called a "version". So, the meaning of the abbreviation (such as "r25") depends upon its context, and it is possible to easily misinterpret the context due to the relationship. Similarly, the word "version" may refer to the transaction type version attribute or to the aseXML namespace identifier abbreviation, depending upon context. Processing XML files (including transforming) requires clear handling of the namespace, so the **B2B Transforms** menu has the aseXML schema releases as its primary context, and the transaction types are used to partition the transitioning process (if desired).

The ability to transition one B2B transaction group at a time allows progressive implementation of the changeover from one aseXML schema release to the next supported release in B2B.

Making the transition from receiving in one release of aseXML to another requires reducing activity to zero, to achieve a clean changeover. Doing nothing for an extended time hampers the flow of B2B business between participants, so a time-limit is imposed for the transition. To prevent an excessive backlog of files to catch up, a maximum is set for the count of .zip files held back from processing during the transition before the changeover is either completed or cancelled.

During the transition time, a temporary holding folder in each participant's B2B folder, called "parkbox", holds the files sent by other participants. When the transition between aseXML releases completes, the files in the holding folder are copied or transformed into the outbox and deleted after processing.

Figure 5 B2B schema change process



Applying B2B transforms

B2B transforms **only** occur between the current and superseded versions of the B2B aseXML schema. If no transform is available (for example, it is not current or superseded) the files are delivered in the schema version they were sent in.

> AEMO does not transform between the aseXML B2B schema and the aseXML B2M schema.

For assistance transitioning your aseXML schema version, see Guide to Transition of aseXML.

Supported B2B schema versions

The B2B e-Hub supports all aseXML schema versions. For example, you can send any B2B file in any published schema version, not just current or superseded. If the recipient cannot process a particular schema version, the recipient must respond to the file with a negative acknowledgement (a rejection).

If sending participants use a B2B schema that is not the current or superseded version, they must have an agreement in place with the receiving participant so the file is not rejected.

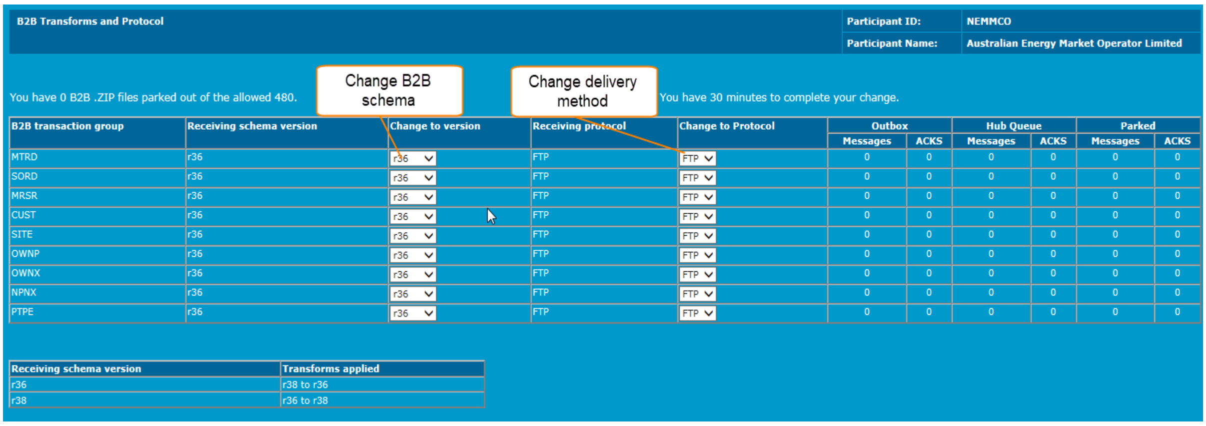
About protocols

Participants can set different protocols for different Transaction Groups but the protocol must be the same within a Transaction Group. For example, for a SORD transaction you cannot send in FTP and receive in API.

Protocols determine the delivery method for sending and receiving B2B transactions. The B2B e-Hub supports two protocols:

1. API: Provides B2B communication options using web services or using direct connections from a compatible participant gateway. API is accessible over the internet or MarketNet.

2. FTP: AEMO systems to participant systems interaction using batch processing, suitable for participant systems using database technology and submission or receipt of high volumes of data.



B2B Transforms and Protocol

Participant ID: NEMMCO

Participant Name: Australian Energy Market Operator Limited

You have 0 B2B .ZIP files parked out of the allowed 480.

Change B2B schema

Change delivery method

You have 30 minutes to complete your change.

B2B transaction group	Receiving schema version	Change to version	Receiving protocol	Change to Protocol	Outbox		Hub Queue		Parked	
					Messages	ACKS	Messages	ACKS	Messages	ACKS
MTRD	r36	r36	FTP	FTP	0	0	0	0	0	0
SORD	r36	r36	FTP	FTP	0	0	0	0	0	0
MRSR	r36	r36	FTP	FTP	0	0	0	0	0	0
CUST	r36	r36	FTP	FTP	0	0	0	0	0	0
SITE	r36	r36	FTP	FTP	0	0	0	0	0	0
OWNP	r36	r36	FTP	FTP	0	0	0	0	0	0
OWNX	r36	r36	FTP	FTP	0	0	0	0	0	0
NPNX	r36	r36	FTP	FTP	0	0	0	0	0	0
PTPE	r36	r36	FTP	FTP	0	0	0	0	0	0

Receiving schema version	Transforms applied
r36	r38 to r36
r38	r36 to r38

B2B transforms and protocols user access rights

For access to the B2B Transforms, Participant Administrators select the B2B Transforms entity in the Administration >Maintain Rights menu.

Access B2B transforms and protocols

1. On the main menu, click B2B Browser and then click Transforms and Protocol.
2. The B2B Transforms and Protocol interface displays.
   If a B2B stopfile is in place you will see an error. For help, see Access B2B transforms and protocols above

Nominating B2B transforms

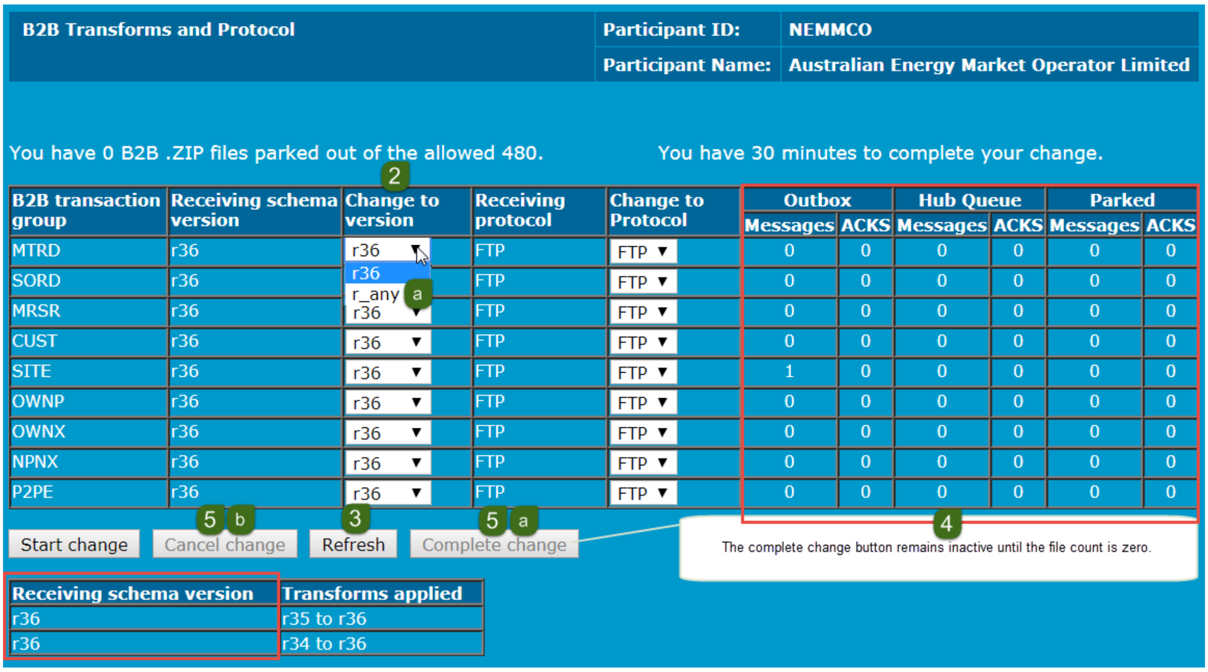
To nominate a new B2B transform for one or more B2B transaction types (for both the transaction and its acknowledgement):

> **Participants have 30 minutes to complete a B2B Transforms change.**

1. Access B2B transforms and protocols. For help, see page Page 82.
2. Click the drop-down arrows under Change to version and select the schema release you are going to handle for each required B2B transaction group. For help, see Figure 6 on the next page.
   a. r_any means you can receive in any available Receiving schema version.
3. Click Refresh to check if you are stopped for B2B file input and if not click Start change.
4. Continue clicking Refresh until the file count is zero (0) for all files.
5. When the total file count is zero, Complete change activates, do one of the following:
   a. To complete the transform, click Complete change.

b. To abandon the transform, click Cancel change. Abandoning the change is only possible if you have not already completed the change. If Cancel change is not activated (that is, is greyed out) then you have either, already completed the change, or the change is cancelled.

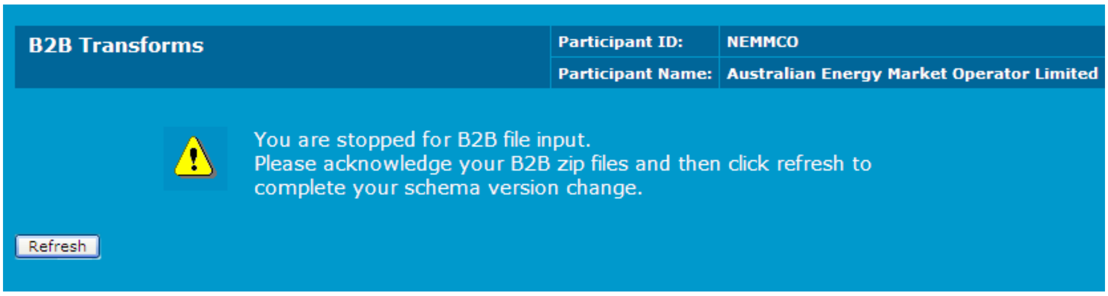
Figure 6 Nominate B2B schema version



Checking the B2B stopfile

To check for the presence of a B2B stopfile in your B2B Outbox:

1. 1. Access B2B transforms and protocols. For help, see page Page 82.
2. If a stopfile is present the message below displays asking you to acknowledge the B2B zip files in your outbox because it must be empty for the transition to complete. For help, see B2B outbox on page 18.
3. If a stopfile is present, clear the outbox.
4. Click Refresh to check if the stopfile is cleared. If yes, the B2B Transforms and Protocols interface displays.



Unless you have placed the stopfile yourself, a stopped status indicates you are stopped from participating in the market. Consequently, you cannot make any changes to your protocol preference or receiving schema. For more details, see B2B Procedures.

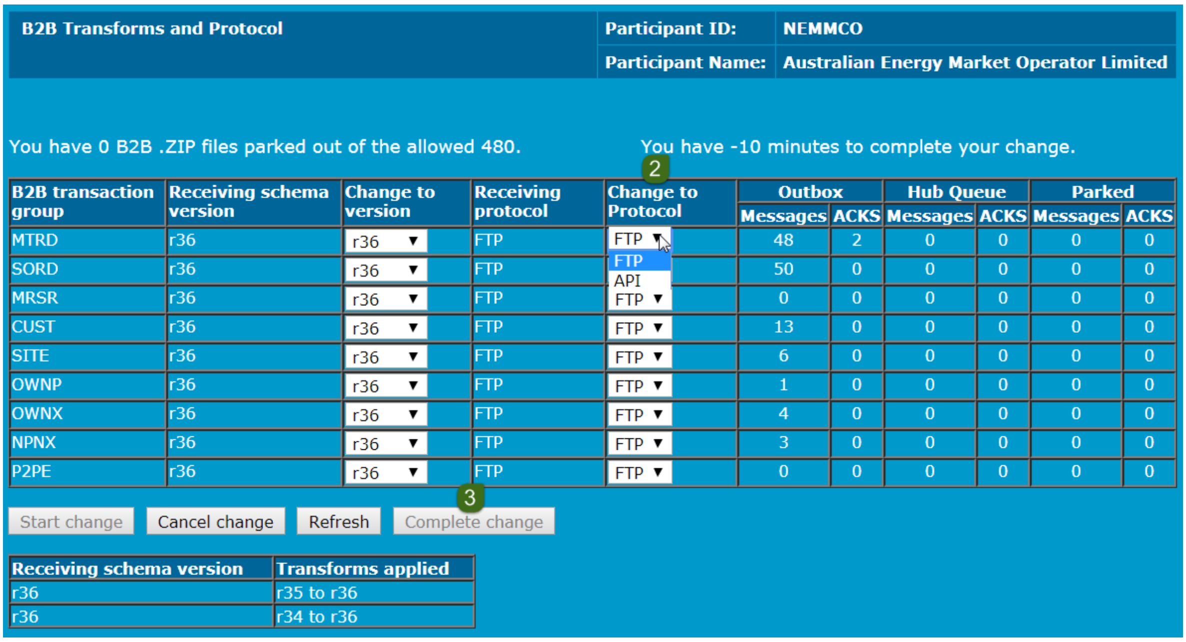
Select your protocol preference

Participants have 30 minutes to complete a protocol preference change.

1. Access B2B transforms and protocols. For help, see page Page 82.
2. Under Change to Protocol, click the drop-down and select either FTP or API for each transaction group.
3. Click Complete change.
   If Complete change is inactive, check you have completed B2B Self-Accreditation.

To change your protocol preference you must be an accredited B2B E-Hub Participant. For help, see Guide to B2B e-Hub Self-Accreditation.

Figure 7 Select protocol



B2B Transforms and Protocol	Participant ID:	NEMMCO
	Participant Name:	Australian Energy Market Operator Limited

You have 0 B2B .ZIP files parked out of the allowed 480.

You have -10 minutes to complete your change.

2

B2B transaction group	Receiving schema version	Change to version	Receiving protocol	Change to Protocol	Outbox		Hub Queue		Parked	
					Messages	ACKS	Messages	ACKS	Messages	ACKS
MTRD	r36	r36	FTP	FTP	48	2	0	0	0	0
SORD	r36	r36	FTP	FTP / API	50	0	0	0	0	0
MRSR	r36	r36	FTP	FTP	0	0	0	0	0	0
CUST	r36	r36	FTP	FTP	13	0	0	0	0	0
SITE	r36	r36	FTP	FTP	6	0	0	0	0	0
OWNP	r36	r36	FTP	FTP	1	0	0	0	0	0
OWNX	r36	r36	FTP	FTP	4	0	0	0	0	0
NPNX	r36	r36	FTP	FTP	3	0	0	0	0	0
P2PE	r36	r36	FTP	FTP	0	0	0	0	0	0

3

Start change | Cancel change | Refresh | Complete change

Receiving schema version	Transforms applied
r36	r35 to r36
r36	r34 to r36

B2B Self-Accreditation

All participants intending to be B2B E-Hub Participants (participants) must acquire accreditation from AEMO in the pre-production B2B E-Hub before they can access the production e-Hub.
For details, see Guide to B2B eHub Self-Accreditation.

B2B Responder

About the B2B Responder

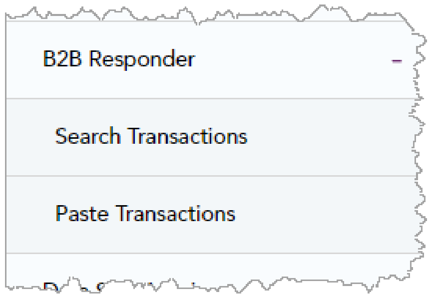
The B2B Responder is only available in the MSATS pre-production environment.

The B2B Responder is used by participants to specify which transactions they would like to receive as part of the initiative to test the operational interaction between participants' systems and the MSATS B2B e-Hub. Participants with appropriate MSATS access rights can specify which standard transactions they would like to receive. For help with user access rights, see User rights access on page 6.

Participants can also search and track the flow of messages between the Responder and themselves.

Standard transactions have fixed values, preset in templates within the system. Field requirements (optional, mandatory etc.) in the aseXML schema are separate from field requirements in the procedures. For example, mandatory in the procedures may not mean mandatory in the aseXML schema. **Procedural requirements must be complied with**. For help with B2B procedures and transactions, see B2B Procedures.

Participants can use the B2B Validation Module Software and Validation Module Matrix for help validating an .XML file before it is deployed to the B2B e-Hub.



The B2B Responder is located on the main menu in the MSATS **pre-production** web portal environment only. For help accessing the MSATS web portal, see Accessing B2B e-Hub on page 9.

B2B Responder user access rights

Your company's Participant Administrator (PA) provides access to B2B Responder for ParticipantUsers in the MSATS>Administration>MaintainEntities menu, using the following entities:

- B2BR Create Transactions
- B2BR Search Transactions
- B2BR Search All Participants Transactions
- B2BR Paste Transactions

Create transactions

The Transaction Group section contains options for each transaction group for example, if the SORD check box is selected, all transactions under the SORD section are automatically ticked. Alternatively, each transaction can be checked individually.

Create transactions user rights access

For access to Create transactions, Participant Administrators select the B2BR Create Transactions entity in the Administration >Maintain Rights menu.

Creating transactions

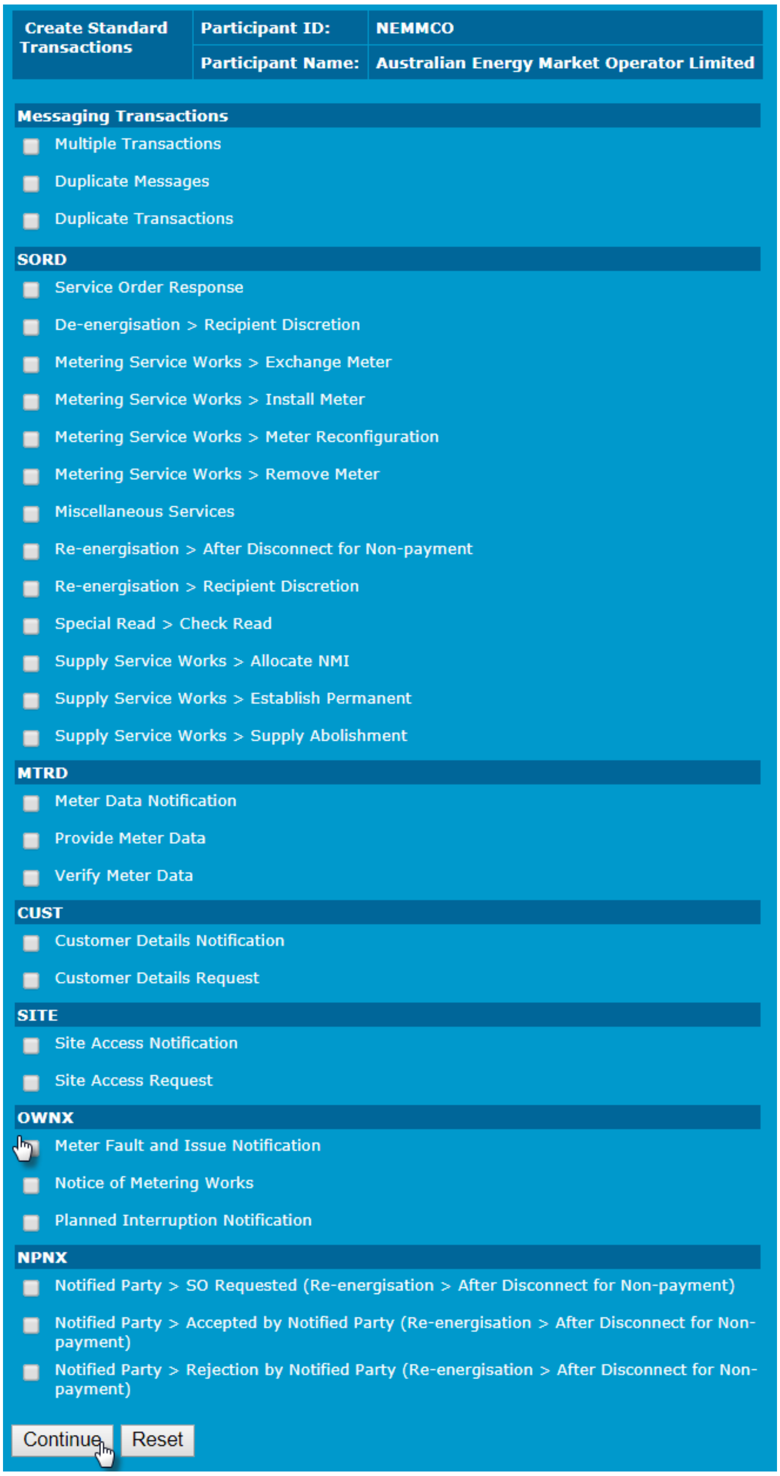
To create a transaction:

1. On the main menu, click B2B Responder and then click Create Transactions.
2. The Create Standard Transaction interface displays. See Figure 8 on the next page.
3. The available transactions display where you make your selections. The Messaging Transactions section has three options:
   - Messaging Transactions allows the creation of multiple transactions within one message.
   - Duplicate Messages - allows the creation of two exact same messages.
   - Duplicate Transactions - allows the creation of two exact same transactions, each in a different message.

For help understanding the fields, see Table 6 on page 92.

4. Make your selections and click Continue.
5. The Create Standard Transaction interface displays requiring additional information.
   Only the appropriate fields are set, for example the Initiating Transaction ID is not set for an Allocate NMI transaction, but is set for a Meter Data Notification. The key fields do not apply to multiple and duplicate messages or transactions.
6. Complete your required fields and click Continue.

Figure 8 Create Standard Transactions



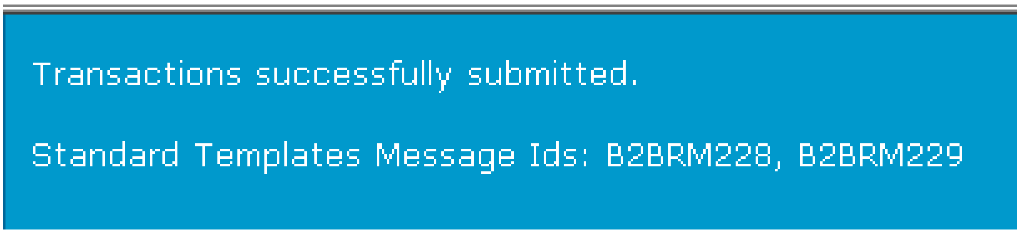
7. Review the details and click **Submit**.

Create Standard Transactions	**Participant ID:** PPPPPPP
	Participant Name: PPPPPPP Pty Ltd
Transaction List	
Customer Details Request	
Participant ID	
To Participant ID	PPPPPPP
From Participant ID	RESPONDER1
Key Fields	
NMI	1234567890
Initiating Transaction ID	AA-123456
Meter Serial Number	BQ12324567
Service Order Number	SO-0987654
Service Provider Reference	SPR-8888888
Address	
House No	95
Street Name	George
Street Type	CRES
Locality	Sydney
Postcode	2000
State	NSW
Scheduling	
Schedule Date	8-Apr-2009
Schedule Time	10:00:00
Email	
Email	someone@somewhere.com.au

Submit

8. A confirmation message displays the Message IDs. All messages are created in the appropriate Responder local inbox and sent to the B2B Hub.

   To create another set of standard transactions, click the Create Transactions menu not your internet browser's back button.



Transactions successfully submitted.

Standard Templates Message Ids: B2BRM228, B2BRM229

Table 6 Create Standard Transaction fields

Field Name	Description
NMI	The NMI for the transaction
Initiating Transaction Id	The Initiating transaction.
Meter Serial Number	The meter serial number for the transaction.
SORD Order Number	The service order number for the transaction.
SORD Reference Number	The service order reference number for the transaction.
Address	The physical address for the transaction. All fields must be completed for the address to be included in the transaction. If a field is left blank then all the address fields are ignored.
Scheduled Date	The date the transactions are to be sent. If the scheduled date is in the past, the transaction(s) is sent immediately.
Scheduled Time	The time the transactions are to be sent. If the scheduled date and time is in the past, the transaction(s) is sent immediately.
Email	The email address to send a confirmation email. The field only supports the entry of one email address.

Search transactions

Participant Users with appropriate rights can search and track the flow of messages between the responder and other participants. They can see all participants in the Participant drop-down list, making it possible for an administrator to track messages between the responder and all participants.

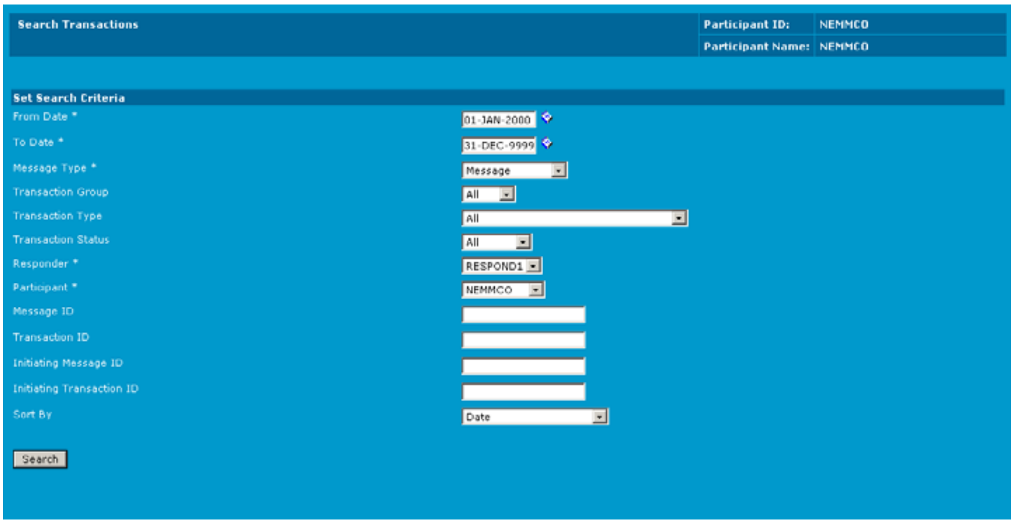
Search transactions user rights access

For access to Search transactions, Participant Administrators select the B2BR Search Transactions and B2BR Search All Participants Transactions entities in the Administration >Maintain Rights menu.

Searching transactions

To search transactions:

1. On the main menu, click B2B Responder and then click Search Transactions.
2. The Search Transaction interface displays. Complete the required and optional fields (see list below) and click Search.



a. **From Date*** - the date the message was created or received by the responder must be greater than or equal to this date.

b. **To Date*** - the date the message created or received by the responder must be less than or equal to this date.

c. **Message Type*** - The message type. There are 4 message types. Message, Transaction, Transaction Ack, Message Ack.

d. **Transaction Group** - The transaction group. There are four groups: SORD, SITE, CUST and MTRD.

e. **Transaction Type** - The transaction type.

f. **Transaction Status** - Rejected, Partial or Accepted.

g. **Responder*** - The responder instance.

h. **Participant*** - The participant.

i. **Message ID**

j. **Transaction ID**

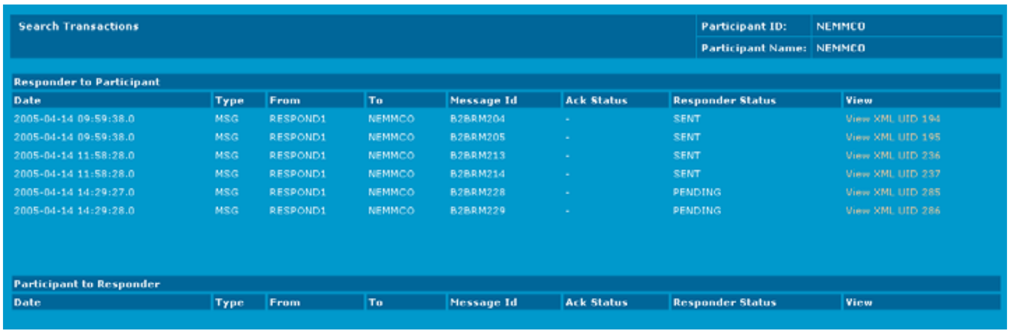
k. **Initiating Message ID**

l. **Initiating Transaction ID**

m. **Sort By** - The field to sort on.

3. Click **Search**. The search results display.

The top table shows transactions or messages from the Responder to you. The bottom table shows transactions or messages from you to the Responder.



4. To view a transaction’s XML file, click View XML. Use the browser’s back button to look at the search result again, or search other transactions.

Paste transactions

Participant Users with appropriate access rights can paste XML messages containing Transactions and Acknowledgements they want to receive.

The functionality only allows valid schema aseXML messages. It does not support the pasting of standalone events or message ACKS. If the message does not contain an appropriate Responder instance in the <From> tag, the message is stored in the database but is not sent to the participant.

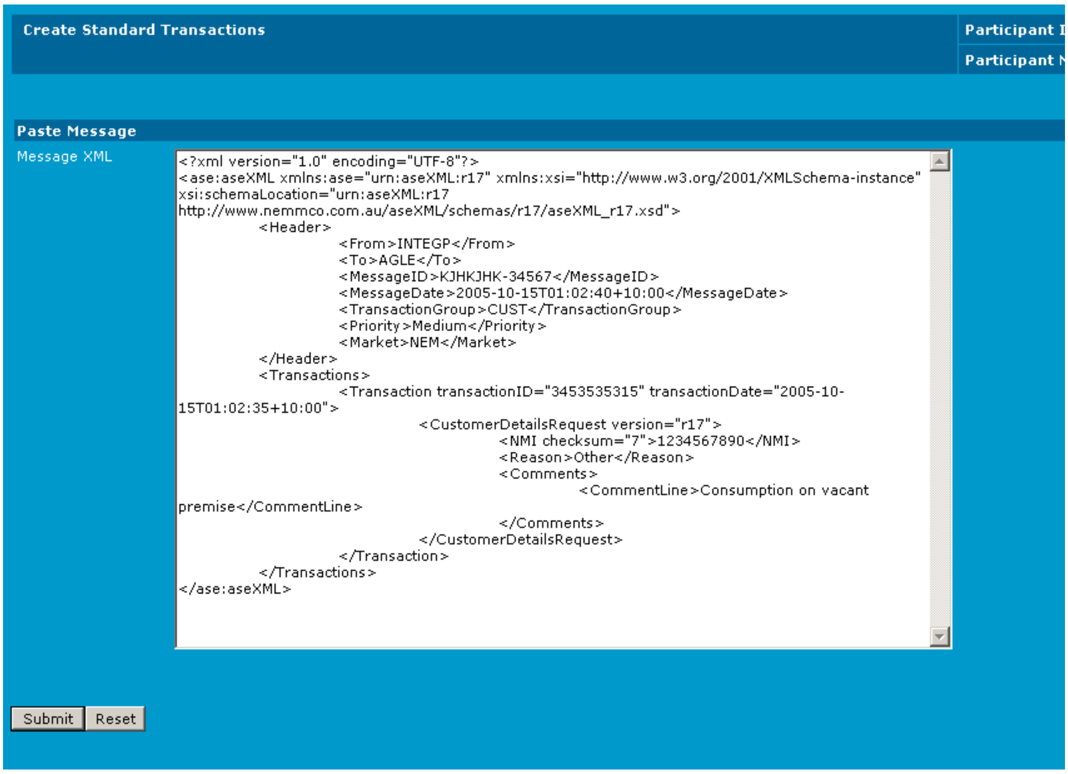
Paste transactions user rights access

For access to Paste transactions, Participant Administrators select the B2BR Paste Transactions entity in the Administration >Maintain Rights menu.

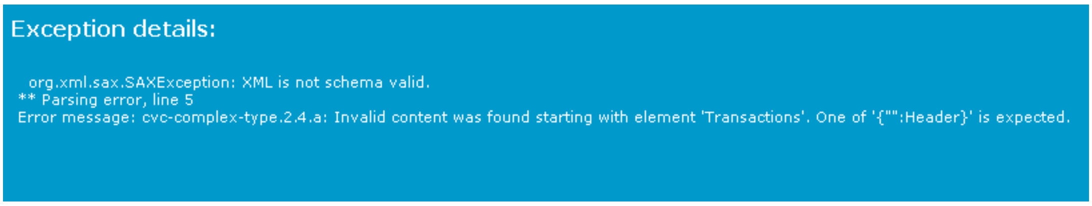
Pasting transactions

To paste transactions:

1. On the main menu, click B2B Responder and then Paste Transactions.
2. The Paste Transaction interface displays. It does not support the pasting of standalone events or message acks. Below is a Customer Details XML message example .
3. Past your message and click Submit.



4. If the message is schema valid, a confirmation message displays. Otherwise, if the schema is not valid, for example, has a missing header, an exception displays, similar to the one below.



Testing transactions

This service is only available in the MSATS pre-production environment.

Participants can test their B2B transactions by placing a transaction file in their participant B2B Inbox, addressed to either of the following MSATS participant IDs in the **To** field of the message header:

- RESPONDER1
- RESPONDER2

Access to the B2B responder from your B2B Inbox does not require access rights.

The responder acts as a virtual participant validating the transaction for aseXML schema and business rule compliance. It creates a message response followed by a transaction acknowledgement and places them in your participant B2B Outbox with one of the following:

- If validation succeeds the file is accepted with an ACCEPT status.
- If validation fails the file is rejected with a REJECT status.

Participants can use the Participant Batcher Software to move files from their local MSATS participant folders to their AEMO MSATS participant folders. For help, see Guide to Participant Batcher Software.

For more information, on the B2B Procedures web page, see:

- B2B Guide: The definition and standard of B2B Transactions.
- B2B Procedure: Technical Delivery Specification: Delivery and format of B2B Transactions.

Needing Help

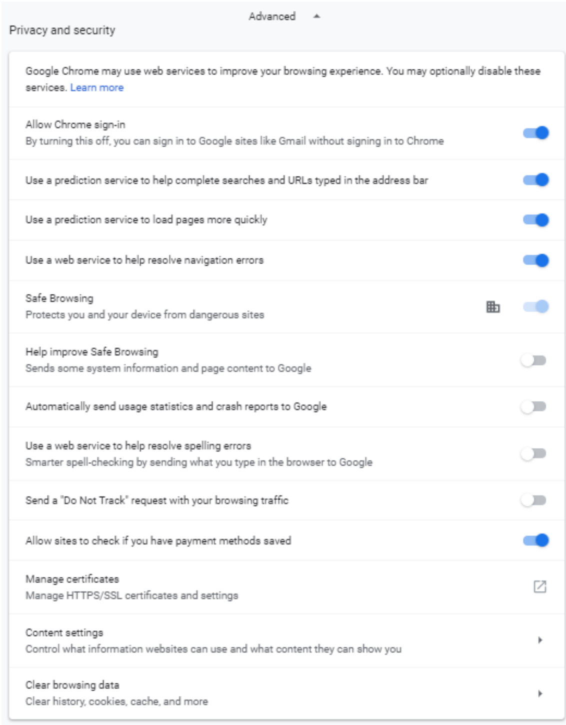
Clearing your cache

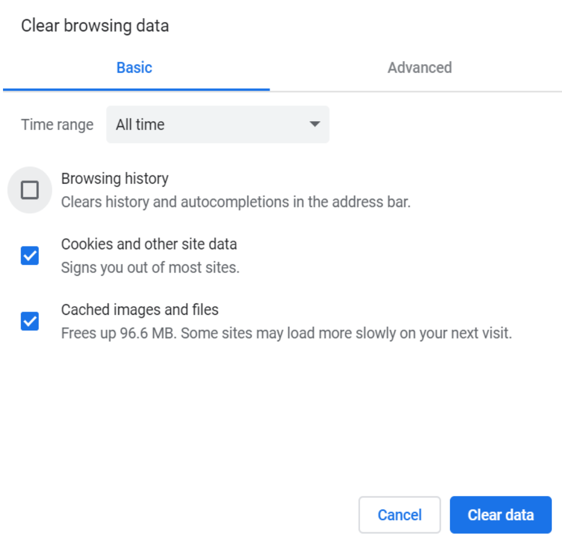
When you use AEMO’s web applications, your browser stores information (for example, images) to avoid downloading it every time you open the web page. While this increases the speed, it could mean you are getting an older version of the web page and not the latest updates. To avoid this, AEMO recommends you clear the cache regularly.

The following sections explain the steps to clear the cache in your web browser.

Google Chrome

1. Click ⋮ on 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.



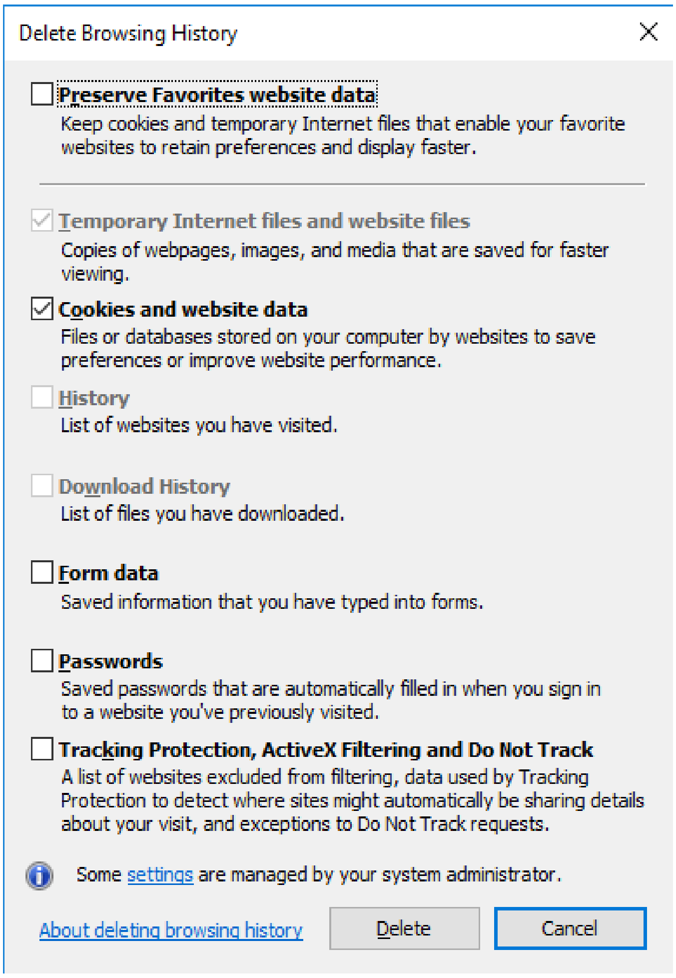


Internet Explorer (IE)

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.

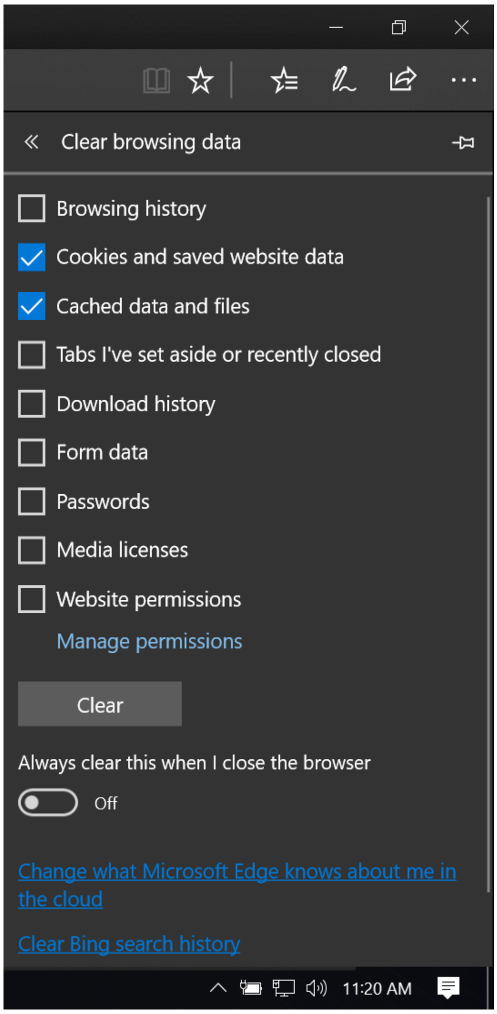
2. In the Delete Browsing History window, select Cookies and website data option.

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

Provided 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 web portal interface. For permission to see other participant IDs using Set Participant, see your company's PA.

For help using Set Participant, see Setting a participant.

System requirements

The B2B e-Hub web portal is accessed using a web browser and requires:

- The website address where the application is located on AEMO’s network. See Accessing B2B e-Hub on page 9.
- A supported web browser, see Supported web browsers below.
- Access to MarketNet. If your company is a Registered Participant, you already have access because it is set up during participant onboarding. For more details, see Guide to Information Systems.
- A user ID and password provided by your company's participant administrator (PA) who controls access to AEMO's participant systems. For more details see User rights access on page 6.

The B2B e-Hub runs on both Windows and Unix-like operating systems.

Supported web browsers

For the best experience, AEMO recommends using the current or previous version of Google Chrome.

The B2B e-Hub runs on both Windows and Unix-like operating systems. To use the Markets Portal, AEMO recommends the following web browsers:

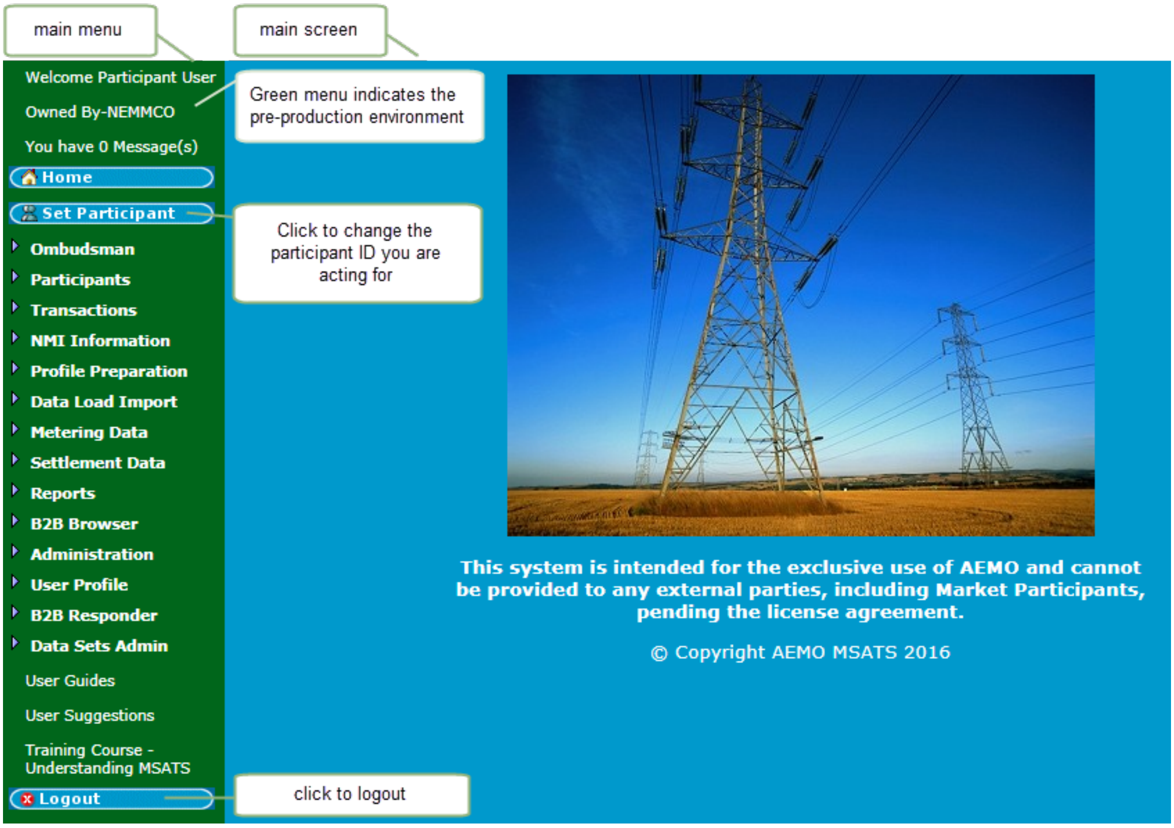
Browser	Platform	Current	More information
Microsoft Internet Explorer	Windows	IE11	https://www.whatismybrowser.com/guides/the-latest-version/internet-explorer
Microsoft Edge (Microsoft recommended)	Windows 10	Edge	https://www.whatismybrowser.com/guides/the-latest-version/edge?utm_source=whatismybrowsercom&utm_medium=internal&utm_campaign=latest-version-index
Google Chrome (AEMO recommended)	All platforms	Latest	https://www.whatismybrowser.com/guides/the-latest-version/chrome

Environment access

For help changing your password, see Using the Markets Portal.

The MSATS web portal gives you a clear indication of the environment you are working in by providing a different background colour for the menu.

- The pre-production environment has a green menu background
- The production environment has a blue menu background.



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

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

Terms

Rules terms

You can find the following terms defined in the relevant Energy rules and procedures.

Glossary

For MSATS and B2B terms, see:

- Retail Electricity Market Glossary and Framework
- Industry Terminology on AEMO's website.

References

You can find resources mentioned throughout this guide on AEMO's website: www.aemo.com.au.

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