Guide to MSATS B2B

12.00 Final
February 2019

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

PURPOSE

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

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

Chapter 1 Introduction ................................................................. 1
  Purpose .............................................................................. 1
  Audience ......................................................................... 1
  How to use this guide ....................................................... 1
  What’s in this guide ........................................................... 2

Chapter 2 B2B Browser ............................................................... 3
  About the B2B Browser ...................................................... 4
  B2B Inbox ........................................................................ 5
  B2B Outbox ....................................................................... 8
  B2B Hub Queue .................................................................. 11
  B2B Archive ...................................................................... 22
  B2B Inbox Archive ............................................................ 24
  New Transaction .................................................................. 25
  Upload a file ...................................................................... 35
  Search Hub Trans Log ....................................................... 37
  Search Activity Log ............................................................ 43
  Modify Functionality .......................................................... 47
  Flow Control Info .............................................................. 50
  Auto Delete Status ............................................................ 51
  Status Report ..................................................................... 52
  B2B Hub Dashboard ........................................................... 54
  B2B Transforms and Protocol ............................................. 55
  B2B Self-Accreditation ....................................................... 61

Chapter 3 B2B Responder ............................................................ 68
  About the B2B Responder ................................................... 68
  Create Transactions ........................................................... 69
  Search Transactions ........................................................... 73
  Paste Transactions ............................................................. 76
  Testing Transactions .......................................................... 77

Chapter 4 Advanced Searching .................................................. 79
  About advanced searching ................................................ 79
  SQL patterns (transaction management) ............................. 80
  Simple regular expressions ................................................ 80
Chapter 1 Introduction

Purpose


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.

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 section in this guide.
- Glossary terms are capitalised and have the meanings listed against them in the Guide to MSATS and B2B Terms.

You can find resources mentioned throughout this guide on AEMO’s website: www.aemo.com.au
• *Italicised terms* are defined in the National Electricity Rules. Any rules terms not in this format still have the same meaning.

• Actions to complete in the web portal interface are **bold and dark grey**.

• References to time in:
  - The Retail Electricity Market Procedures (except the B2B Procedures) are to Australian Eastern Standard Time (AEST).
  - The B2B Procedures refer to the local time applicable at the Site where a B2B Transaction relates.

• The expressions **within one Business Day or next Business Day** in the B2B Procedure: Service Order Process mean by 11:59 pm the next Business Day.

• References to currency are to Australian dollars.

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What’s in this guide


Chapter 3 B2B Responder on page 68 explains how to use the B2B Responder to test B2B transactions to track the flow of messages between the Responder and your participant ID.

Chapter 4 Advanced Searching on page 79 provides information about how to use regular expressions in searches.

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

Needing Help provides related resources, information about contacting AEMO's Support Hub, and how to provide feedback.
About the B2B Browser


The B2B Browser (interactive functions) and the MSATS file server (batch transactions) have B2B folders for handling B2B transactions delivered between B2B participants. These B2B folders reside under the B2B folder within the root path of your participant folder and include the following:

- **B2B Inbox**: B2B 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 participants only have read access to their B2B Outbox where they receive B2B Messages and Acknowledgements from other B2B participants.

- **B2B Archive**: B2B participants only have read access to their B2B Archive, it is where all acknowledged B2B Messages are moved.

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

For help accessing the MSATS web portal, see *Introduction to MSATS*
For help with B2B procedures and transactions, see *B2B Procedures*.

**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 applicable to FTP participants only.

B2B Inbox user rights access
Searching the B2B Inbox
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, Participant Administrators select the B2B folder Inbox entity in the Administration > Maintain Rights menu.

**Searching the 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 a regular expression to match the target filename. For help Advanced Searching.

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.

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.


### B2B Outbox user rights access

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

The B2B Outbox is applicable to FTP participants only.
Searching the 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 the Filename field, type a regular expression to match the target filename. For help, see Advanced Searching.

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.


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.
This interface does not support the FTP Protocol B2B messages, see B2B Inbox.

About the 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.

Participants can only view their own B2B Hub Queue.

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


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**: For help, see Advanced Searching.

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

You cannot view or execute actions against messages and message acknowledgements with a status of Parked.
Figure 3 B2B Hub Queue interface

- Sort messages. For help see Figure 3.
- Click the Context ID / File Name to view the message. For help, see Figure 3.
- 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.
- View a file by clicking the filename in the Filename column. For help, see Access the B2B Hub Queue.
- Download a message or acknowledgement.
- Acknowledge or reject messages.
- Delete messages or acknowledgements.
Search the B2B Hub Queue

1. Access the B2B Hub Queue for help, see page 14.

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. For help searching and filtering, see Advanced Searching.

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.

   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:
- Sort messages. For help see Figure 3
- Click the Context ID / File Name to view the message. For help, see Figure 3.
- 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.
- View a file by clicking the filename in the Filename column. For help, see Access the B2B Hub Queue.
- Download a message or acknowledgement.
- Acknowledge or reject messages.
- Delete messages or acknowledgements.

**Download a message or acknowledgement**

1. Search for the message. For help, see page 16.
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.
 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.

2. In the B2B Hub Queue Contents section, click the Context ID / File Name. For help, see .

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.

The create status of the acknowledgements are as follows:

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Acknowledgement Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>sordm</td>
<td>1984372000.ack</td>
</tr>
<tr>
<td>sordm</td>
<td>1928340000.ack</td>
</tr>
</tbody>
</table>

Return to the “B2B Outbox” screen.

**Acknowledge several messages**

1. Search for the message. For help, see Search the B2B Hub Queue.

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 .

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

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

The create status of the acknowledgements are as follows:

<table>
<thead>
<tr>
<th>Message ID</th>
<th>Acknowledgement Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>sordm</td>
<td>1984372000.ack</td>
</tr>
<tr>
<td>sordm</td>
<td>1928340000.ack</td>
</tr>
</tbody>
</table>

Return to the “B2B Outbox” screen.
Reject a single message

1. Search for the message. For help, see Search the B2B Hub Queue.

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

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.

2. Click the Context ID / File Name to view the message. For help, see .

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.

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 .

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.

2. In the B2B Hub Queue Contents section, select all the messages you want to delete. For help, see .
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.

   ![The files have been deleted successfully.]

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**B2B Archive**

Once a message is acknowledged in the B2B Outbox, B2B Hub Queue, or Participant API, the **B2B e-Hub** moves the file into the B2B Archive folder.


**B2B Archive user rights access**

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

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

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**, **B2B Inbox**.

   Click **Reset** to clear all fields and start again.

   ![B2B Archive Interface](image)

View a file by clicking the filename in the Filename column and drilling down several layers until filename displays with a time format.

![File View](image)

3. 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.

![Download Options](image)
**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 folder 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.

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.
Creating a 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 Transaction types and Recipient roles.

b. The message type, MXN or MTN 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. The message types are:

MXN - Meter Exchange Notification (existing).
NTN - Network Tariff Notification (new).

4. Next, click one of the following buttons:

- **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 screen.

Service Order Request screens such as Create Transaction - Service Order Request Supply Abolishment (see Figure 4) include the optional sections, Customer Contact Name and Business Contact Name sections. To ensure the aseXML is valid, you can complete either one of these sections, but not both (see Figure 5). Otherwise, leave the sections blank.
Figure 4 Create Transaction - Service Order Request Supply Abolishment

New Transaction
## Transaction types and Recipient roles

<table>
<thead>
<tr>
<th>Transaction Group</th>
<th>Transaction Type</th>
<th>Initiators/Recipients</th>
</tr>
</thead>
<tbody>
<tr>
<td>Customer and Site Details Notification</td>
<td>Customer Details Request</td>
<td>FRMP, LR</td>
</tr>
<tr>
<td></td>
<td>Customer Details Notification</td>
<td>LNSP, MPB, RP</td>
</tr>
<tr>
<td></td>
<td>Life Support Request</td>
<td>FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, NSP2</td>
</tr>
<tr>
<td></td>
<td>Life Support Notification</td>
<td>FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, NSP2</td>
</tr>
<tr>
<td></td>
<td>Site Access Request</td>
<td>FRMP, LR, MPB, LNSP, RP</td>
</tr>
<tr>
<td></td>
<td>Site Access Notification</td>
<td>FRMP, LR, MPB, LNSP, RP</td>
</tr>
<tr>
<td></td>
<td>Provide Meter Data</td>
<td>MDP</td>
</tr>
<tr>
<td></td>
<td>Verify Meter Data</td>
<td>MDP</td>
</tr>
<tr>
<td></td>
<td>Meter Data Notification</td>
<td>FRMP, LR, MPB, LNSP, RP</td>
</tr>
<tr>
<td></td>
<td>Remote Service Request</td>
<td>MPB, RP</td>
</tr>
<tr>
<td></td>
<td>Remote Service Response</td>
<td>FRMP, LR, MPB, RP</td>
</tr>
<tr>
<td></td>
<td>Notice of Metering Works</td>
<td>LNSP</td>
</tr>
<tr>
<td></td>
<td>Meter Fault and Issue Notification</td>
<td>FRMP or LR</td>
</tr>
<tr>
<td></td>
<td>Planned Interruption Notification</td>
<td>LNSP</td>
</tr>
<tr>
<td></td>
<td>Network Tariff Notification</td>
<td>FRMP or LR</td>
</tr>
<tr>
<td></td>
<td>Meter Exchange Notification</td>
<td>FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, or NSP2</td>
</tr>
<tr>
<td></td>
<td>Notified Party</td>
<td>FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, or NSP2</td>
</tr>
<tr>
<td>Transaction Group</td>
<td>Transaction Type</td>
<td>Initiators/Recipients</td>
</tr>
<tr>
<td>----------------------------</td>
<td>--------------------------------</td>
<td>-----------------------------</td>
</tr>
<tr>
<td>Service Order Request</td>
<td>Supply Service Works</td>
<td>LNSP</td>
</tr>
<tr>
<td></td>
<td>Metering Service Works</td>
<td>LNSP or MPB</td>
</tr>
<tr>
<td></td>
<td>Re-energisation</td>
<td>LNSP, MPB or RP</td>
</tr>
<tr>
<td></td>
<td>De-energisation</td>
<td>LNSP, MPB or RP</td>
</tr>
<tr>
<td></td>
<td>Special Read</td>
<td>LNSP or MDP</td>
</tr>
<tr>
<td></td>
<td>Request Miscellaneous Services</td>
<td>FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, or NSP2</td>
</tr>
</tbody>
</table>

### Transaction types and notified party roles

<table>
<thead>
<tr>
<th>Transaction Group</th>
<th>Transaction Type</th>
<th>Recipient Roles</th>
</tr>
</thead>
<tbody>
<tr>
<td>Service Orders</td>
<td>Supply Service Works</td>
<td>MDP, MPB, or RP</td>
</tr>
<tr>
<td></td>
<td>Metering Service Works</td>
<td>MDP, LNSP, MPB, or RP</td>
</tr>
<tr>
<td></td>
<td>Re-energisation</td>
<td>MDP, LNSP, MPB, or RP</td>
</tr>
<tr>
<td></td>
<td>De-energisation</td>
<td>MDP, LNSP, MPB, RP</td>
</tr>
<tr>
<td></td>
<td>Special Read</td>
<td>All Roles (FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, or NSP2)</td>
</tr>
<tr>
<td></td>
<td>Miscellaneous Services</td>
<td>All Roles (FRMP, LR, MPB, LNSP, RP, ROLR, MPC, MDP, or NSP2)</td>
</tr>
</tbody>
</table>

### 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 Life Support Notification
- B2B Life Support Request
- B2B Meter Fault And Issue Notification
- B2B Notice Of Metering Works
- B2B Notified Party
- B2B Planned Interruption Notification
<table>
<thead>
<tr>
<th>New Transaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>B2B Remote Service Request</td>
</tr>
<tr>
<td>B2B Remote Service Response</td>
</tr>
<tr>
<td>B2B Site Access Request</td>
</tr>
<tr>
<td>B2B Trans Cancel Service Order Request</td>
</tr>
<tr>
<td>B2B Trans One Way Notification</td>
</tr>
<tr>
<td>B2B Trans Provide Meter Data Request</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Adds and Alts</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Allocation NMI</td>
</tr>
<tr>
<td>B2B Trans Service Order Request De-energisation</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Deenergisation Local Meter Disconnection</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Deenergisation Recipient Discretion</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Deenergisation Remote</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Deenergisation Remove Fuse</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Investigation</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Reconfiguration</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Service Works Controlled Load</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Service Works Exchange Meter</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Service Works Install Meter</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Service Works Move Meter</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Meter Service Works Remove Meter</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Miscellaneous</td>
</tr>
<tr>
<td>B2B Trans Service Order Request New Connection</td>
</tr>
<tr>
<td>B2B Trans Service Order Request New Connection Supply Alteration</td>
</tr>
<tr>
<td>B2B Trans Service Order Request New Connection Temporary</td>
</tr>
<tr>
<td>B2B Trans Service Order Request New Connection Temporary in Permanent</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Re-energisation</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Re-Energisation After Disconnection For Non-Payment.</td>
</tr>
<tr>
<td>B2B Trans Service Order Request Re-Energisation Recipient Discretion.</td>
</tr>
</tbody>
</table>
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.

File name / Context ID

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

Figure 6 Upload file process

The B2B procedures mandate that 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

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.

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.

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.

**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 Transaction Log entity in the Administration >Maintain Rights menu.

**Searching the transaction log**

This interface searches the log in the B2B e-Hub.

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 Table 1.

   Click Reset to start again.
3. The **Search Transaction Log Results** interface displays (for help understanding the fields see "Table 2") 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.
- **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.

### Table 1 Search Transaction Log fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Participant</td>
<td>The Participant initiating the transaction</td>
</tr>
<tr>
<td>To Participant</td>
<td>The Recipient receiving the transaction.</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>Field</td>
<td>Description</td>
</tr>
<tr>
<td>---------------</td>
<td>-----------------------------------------------------------------------------</td>
</tr>
<tr>
<td>From Time</td>
<td>Time when the Transaction was initially received by the e-Hub.</td>
</tr>
<tr>
<td>To Time</td>
<td>Time when the Transaction status was last updated based on an action by a participant.</td>
</tr>
</tbody>
</table>

Table 2 Search Transaction Log Results

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Participant</td>
<td>The Participant initiating the transaction.</td>
</tr>
<tr>
<td>To Participant</td>
<td>The Recipient receiving the transaction.</td>
</tr>
<tr>
<td>Message ID</td>
<td>The ID of the message.</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>The transaction ID.</td>
</tr>
<tr>
<td>Init Transaction ID</td>
<td>The initiating transaction ID.</td>
</tr>
<tr>
<td>Init Service Order ID</td>
<td>The initiating service order ID.</td>
</tr>
<tr>
<td>Transaction Type</td>
<td>The transaction type.</td>
</tr>
<tr>
<td>Service Order Type</td>
<td>The transaction subtype.</td>
</tr>
<tr>
<td>Hub Generated</td>
<td>Flags if the message was generated by the e-Hub:</td>
</tr>
<tr>
<td></td>
<td>○ Y – Generated by the e-Hub (e.g. Initiator or Notified Party).</td>
</tr>
<tr>
<td></td>
<td>○ N – Received from the participant or is a shell record.</td>
</tr>
<tr>
<td>NMI</td>
<td>The NMI of the transaction.</td>
</tr>
<tr>
<td>Message Context ID / Filename</td>
<td>The Context ID or Filename that contained the message.</td>
</tr>
<tr>
<td>Message Timestamp</td>
<td>When the file was written to the Participant’s B2B Hub inbox.</td>
</tr>
<tr>
<td>Transaction Status</td>
<td>The current status of the Message/Transaction either:</td>
</tr>
<tr>
<td></td>
<td>○ COM - Completed</td>
</tr>
<tr>
<td></td>
<td>○ D - Delivered</td>
</tr>
<tr>
<td></td>
<td>○ REJ - Transaction Rejected</td>
</tr>
<tr>
<td></td>
<td>○ TAWR - Transaction Acked Waiting for Response</td>
</tr>
<tr>
<td>Message Status</td>
<td>Indicates if a message is awaiting an action by the receiving party or an action is complete:</td>
</tr>
<tr>
<td></td>
<td>○ D - Delivered</td>
</tr>
<tr>
<td></td>
<td>○ MA - Message Acked</td>
</tr>
<tr>
<td></td>
<td>○ REJ - Message Rejected by Recipient</td>
</tr>
<tr>
<td></td>
<td>○ SC - Sync Completed</td>
</tr>
<tr>
<td>Action</td>
<td>Click to view the transaction details.</td>
</tr>
</tbody>
</table>
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.

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
2. Click Search Related Record.
3. The related Service Order Response for that Service Order Request displays.

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

Search Activity Log user rights access

Searching the activity log

Optional search fields

Search result fields

Type Of Item Actioned and Item Identifier fields
• 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 Table 3.

4. The search results display. For help understanding the search result fields, see Table 4.

Participants can only search their own actions.

### Table 3 Optional search fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>Select a specific user who performed the selected action (above) from the drop down menu.</td>
</tr>
<tr>
<td>Item Actioned</td>
<td>From the drop down menu, select the item the action was performed on. Note: the content of this field depends on the action context.</td>
</tr>
<tr>
<td>From date</td>
<td>The start of the date range when the action was performed. The format is dd-MMM-yyyy. (e.g. 01-Jan-2005).</td>
</tr>
</tbody>
</table>
Table 4 Search result fields

<table>
<thead>
<tr>
<th>Field</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>To date</td>
<td>The end of the date range when the action was performed. The format is dd-MMM-yyyy. (e.g. 01-Jan-2005).</td>
</tr>
<tr>
<td>From time</td>
<td>The start of the time range when the action was performed. The format is hh:mm:ss (e.g. 10:30:00)</td>
</tr>
<tr>
<td>To time</td>
<td>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.</td>
</tr>
</tbody>
</table>

Table 4 Search result fields

<table>
<thead>
<tr>
<th>Column Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>User</td>
<td>Who performed the action.</td>
</tr>
<tr>
<td>Participant</td>
<td>The Participant ID.</td>
</tr>
<tr>
<td>Date/time</td>
<td>The date and time the action was performed.</td>
</tr>
<tr>
<td>Action</td>
<td>The action performed.</td>
</tr>
<tr>
<td>Type of item actioned</td>
<td>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.</td>
</tr>
<tr>
<td>Item identifier</td>
<td>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.</td>
</tr>
<tr>
<td>folder of action</td>
<td>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</td>
</tr>
</tbody>
</table>

Table 5 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

<table>
<thead>
<tr>
<th>Action</th>
<th>Type of Item Actioned</th>
<th>Item Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Upload File</td>
<td>File</td>
<td>Filename of the uploaded file</td>
</tr>
<tr>
<td>Create Transaction</td>
<td>The transaction subtype.</td>
<td>The Transaction Id of the created transaction.</td>
</tr>
<tr>
<td>Create Acknowledgement</td>
<td>Transaction Acknowledgement or Message Acknowledgement</td>
<td>The Message Id of the acknowledgement</td>
</tr>
<tr>
<td>Delete File</td>
<td>File</td>
<td>The filename of the deleted file.</td>
</tr>
</tbody>
</table>
## 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.

<table>
<thead>
<tr>
<th>Action</th>
<th>Type of Item Actioned</th>
<th>Item Identifier</th>
</tr>
</thead>
<tbody>
<tr>
<td>Download File</td>
<td>File</td>
<td>The filename of the downloaded file</td>
</tr>
<tr>
<td>Auto Delete On</td>
<td>Process</td>
<td>n/a</td>
</tr>
<tr>
<td>Auto Delete Off</td>
<td>Process</td>
<td>n/a</td>
</tr>
<tr>
<td>Toggle Functionality On</td>
<td>Process</td>
<td>The functionality name that was toggled on</td>
</tr>
<tr>
<td>Toggle Functionality Off</td>
<td>Process</td>
<td>The functionality name that was toggled off</td>
</tr>
<tr>
<td>Search Transaction Log</td>
<td>Search</td>
<td>n/a</td>
</tr>
<tr>
<td>View B2B Hub Dashboard</td>
<td>Report</td>
<td>The Participant whose dashboard was viewed.</td>
</tr>
<tr>
<td>View Flow Control Data</td>
<td>Report</td>
<td>n/a</td>
</tr>
</tbody>
</table>

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. For help with user administration, see [Guide to User Rights Management](#).

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:

<table>
<thead>
<tr>
<th>Toggle</th>
<th>User Rights Access</th>
<th>Result</th>
</tr>
</thead>
<tbody>
<tr>
<td>On</td>
<td>Yes</td>
<td>Functionality <strong>in use</strong></td>
</tr>
<tr>
<td>Off</td>
<td>Yes</td>
<td>Functionality <strong>not in use</strong></td>
</tr>
<tr>
<td>On</td>
<td>No</td>
<td>Functionality <strong>not in use</strong></td>
</tr>
<tr>
<td>Off</td>
<td>No</td>
<td>Functionality <strong>not in use</strong></td>
</tr>
</tbody>
</table>

**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.


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


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.

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 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
- About protocols
- B2B Transforms and Protocols user access rights
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.
About protocols

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.

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.
B2B Transforms and Protocols user access rights

For access to the B2B Transforms, Participant Administrators select the B2B Transforms and Protocols 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

Nominating B2B transforms

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


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 8.
   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 8 Nominate B2B schema version](image)

### Checking the B2B stopfile

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

1. **Access B2B transforms and protocols.** For help, see page 58.

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**.

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


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.

Participants have 30 minutes to complete a protocol preference change.
Figure 9 Select protocol

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.

Participants can complete their self-accreditation using any Delivery Method and e-Hub Interface they choose. They use the B2B e-Hub Self-Accreditation interface in the MSATS B2B Browser to monitor test progress, submit results, and view self-accreditation outcomes.

If you have multiple market roles, you must submit test results for each role you seek accreditation for.

Set up B2B Delivery Method

This topic describes how to set up your B2B delivery method for sending and receiving transactions.
To set up your preferred delivery method:


2. Set up your sending and receiving protocol, either FTP or API. For help, see Select your protocol preference.

Access B2B Self-Accreditation

1. Access the MSATS pre-production environment: https://msats.preprod.nemnet.net.au/msats/. For help, see Web portal requirements.

2. In the MSATS main menu, click B2B Browser and then B2B Self-Accreditation.

3. The interface displays with the list of tests you must complete to acquire accreditation or a list of your tests in progress. For an example, see Complete the tests.

Complete the tests

Participants complete the tests in the B2B Responder. For help, see B2B Responder.

Before commencing the accreditation tasks, complete the prerequisites and accreditation preparation.
1. If required by your role, complete stage 1 testing - Messaging related to your Participant ID role. Below is an example of the interface.

2. All intending B2B e-Hub Participants complete stage 2 testing - Transactions. Below is an example of the interface. Where No Match Found displays in the Test Outcome column, you must provide an Exemption Reason.
Monitor test progress

1. Access the B2B Self-Accreditation interface. For help, see Monitor test progress.

2. Use the drop-down arrows to:
   - Select the Role you are seeking accreditation for.
   - Select the From and To Date range of the corresponding executed tests.

3. Click Search.

4. The interface displays with a summary of any tests you have in progress.

5. Next you can:
   - Provide reasons for exemption from stage 2 testing - Transactions.
   - Select which results to submit to AEMO. For help, see Monitor test progress.
   - Submit Results to AEMO. For help, see Submit test results to AEMO.
   - Download a csv file with your results.
Figure 10 B2B Self-Accreditation interface
Submit test results to AEMO

To submit your results to AEMO:


2. Select the results and click Submit Results to AEMO. For help, see C in Figure 10.

3. In the Submit Results to AEMO interface, review your result details, add any additional notes (optional), and click Submit.

4. Confirmation of your submission displays.
5. AEMO reviews your results and if satisfied, accredits you to interact with the e-Hub.
   If AEMO are not satisfied with your test results it will notify you explaining why.
Chapter 3 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 Hub. Participants with appropriate MSATS access rights can specify which standard transactions they would like to receive. Standard transactions are transactions that have fixed values, preset in templates within the system.

In addition to creating transactions, participants can search and track the flow of messages between the Responder and themselves.

The B2B Responder is located on the main menu in the MSATS pre-production web portal environment only.

For help with B2B procedures and transactions, see B2B Procedures.
B2B Responder user access rights

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

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

If you don't know who your company's PA is, contact AEMO's Support Hub.

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.

1. On the main menu, click B2B Responder and then click Create Transactions.

2. The Create Standard Transaction interface displays. See Figure 11.

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.

4. Make your selections and click Continue.
5. The Create Standard Transaction interface displays requiring additional information. Complete your required fields and click Continue.

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. Review the details and click **Submit**.
7. A confirmation message displays the Message IDs. All messages are created in the appropriate Responder local inbox and sent to the B2B Hub.

Transactions successfully submitted.
Standard Templates Message Ids: B2BRM228, B2BRM229

To create another set of standard transactions, click the Create Transactions menu not your internet browser’s back button.
Table 6 Create Standard Transaction fields

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

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.

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 and click Search. For help understanding the fields see Table 7.
3. The search results display. To view a transaction's XML file, click View XML in the View column.

4. The .XML transaction file displays.
Table 7 Search Transactions fields

<table>
<thead>
<tr>
<th>Field Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>From Date *</td>
<td>The date to search from must be greater than or equal to the current date.</td>
</tr>
<tr>
<td>To Date *</td>
<td>The date to search to, must be less than or equal to the current date.</td>
</tr>
<tr>
<td>Message Type *</td>
<td>There are 4 message types. Message, Transaction, Transaction Ack, Message Ack.</td>
</tr>
<tr>
<td>Transaction Group</td>
<td>There are four groups: SORD, SITE, CUST and MTRD.</td>
</tr>
<tr>
<td>Transaction Type</td>
<td>The type of transaction.</td>
</tr>
<tr>
<td>Transaction Status</td>
<td>Rejected, Partial or Accepted</td>
</tr>
<tr>
<td>Responder *</td>
<td>The responder instance</td>
</tr>
<tr>
<td>Participant *</td>
<td>The Participant</td>
</tr>
<tr>
<td>Message ID</td>
<td>Message ID</td>
</tr>
<tr>
<td>Transaction ID</td>
<td>Transaction ID</td>
</tr>
<tr>
<td>Initiating Message ID</td>
<td>Initiating Message ID</td>
</tr>
<tr>
<td>Initiating Transaction ID</td>
<td>Initiating Transaction ID</td>
</tr>
<tr>
<td>Sort By</td>
<td>The field to order the results by</td>
</tr>
</tbody>
</table>
Paste Transactions

The paste functionality only allows for the pasting of XML messages that have a valid schema. 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.

Participants with the appropriate MSATS access can paste XML transaction messages in the B2B Responder. The paste functionality supports the pasting of messages (such as a message containing transactions) and acknowledgements.

1. On the main menu, click **B2B Responder** and then click **Paste Transactions**.
2. The **Paste Transaction** interface displays where you can paste an XML message.
3. Paste your XML message into the text box and click **Submit**.
4. A message displays confirming the message was submitted successfully.

Message successfully submitted.

Exception details:

```
Exception: SAXParseException: XML is not schema valid.
  ** Parsing error, line 5
Error message: ocu-complex-type.2.4.xi: Invalid content was found starting with element 'Transaction'. One of ("@":Header) is expected.
```

If the message is not schema valid, for example, the header is missing, an exception message displays. The exception details below explain the content is not XML valid, and a header element is expected.

Testing Transactions

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

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 using B2B e-Hub Batch Handlers use the Participant Batcher software to move files from their local MSATS participant folders to their AEMO MSATS participant folders.


For more information about the delivery and format of B2B Transactions, see **B2B Procedure: Technical Delivery Specification**.
Chapter 4 Advanced Searching

About advanced searching

This section provides information about how to use regular expressions in searches. A regular expression is a string of characters that tells the search function which string (or strings) to look for. Following is an explanation of the format of regular expressions.

If you are familiar with Perl, you already know the syntax. For those familiar with Unix, there are subtle differences between Perl regular expressions and Unix regular expressions.
SQL patterns (transaction management)

You can use SQL criteria in your search transactions, which means that fields on the Search Transaction Log interface allows the field’s value to map directly to an SQL query. For example, when the % value is entered for the Message ID, it has the effect of executing the query using an SQL construct such as `WHERE message ID LIKE '%'.` The following table shows use of the common SQL patterns where x equals your entered value.

<table>
<thead>
<tr>
<th>SQL Pattern</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>Blank</td>
<td>A blank field acts as a wildcard.</td>
</tr>
</tbody>
</table>
| %           | This is the Wildcard character that matches any word.  
Example: If % is entered for message ID, it has the effect of matching any message ID |
| xxxx%       | This is a type of substring matching. It matches the starting value and any text after that value.  
Example: If B2B% is entered for message ID, it matches all messages with the message ID starting with the word B2B. |
| %xxxx%      | This is another type of substring matching. It fetches all text matching the value in the middle of the %.  
Example: If %BB% is entered for message ID, it matches any message ID that contains the word BB in the middle. |
| %xxxx       | This matches text that has the value after the %.  
Example: If %BB is entered for the message ID, it matches any message ID that ends with the word BB. |
| _xx         | The underscore matches any single character. If _value is entered, it matches any text starting with the underscore and followed by the text value. Example: If _abc is entered, it matches xabc, eabc, etc. |

Simple regular expressions

In its simplest form, a regular expression is just a word or phrase to search for. For example, sitemnemmcob2bb1.zip matches the exact text `sitemnemmcob2bb1.zip` but nothing else.
The “.” (the period character) is a metacharacter that matches any character, so to match a “.”, use “\.”. For example to search for `sitemnemmcob2bb1.zip`, enter:

```
sitemnemmcob2bb1\..zip.
```

Spaces may be part of the regular expression, even when they are not intended, so be careful the regular expression does not have any trailing spaces unless they are part of the string to searched for.

**Metacharacters**

Some characters have a special meaning to the search function. These characters are called metacharacters. Although they may seem confusing at first, they add a great deal of flexibility and convenience.

**Period**

The period (\.) is a commonly used metacharacter. It matches exactly one character for example, the regular expression `site.nemmcob2bb1\.zip` matches the following:

```
sitemnemmcob2bb1.zip
sitehnemmcob2bb1.zip
siteInemmcob2bb1.zip
```

**Backslash**

The backslash (\) is also a metacharacter, it is requires to search for a string that contains a period. The backslash is used to indicate the character immediately to its right is to be taken literally. For example, to search for the string `sitemnemmcob2bb1.zip`, enter:

```
sitemnemmcob2bb1\..zip
```

This is called "quoting". The period in the regular expression above has been quoted. In general, whenever the backslash is placed before a metacharacter, the search function treats the metacharacter literally rather than invoking its special meaning.
Unfortunately, the backslash is used for other things besides quoting metacharacters. Many "normal" characters take on special meanings when preceded by a backslash. The rule of thumb is, quoting a metacharacter turns it into a normal character, and quoting a normal character may turn it into a metacharacter.

### Question mark

The question mark indicates the character immediately preceding it either zero times or one time, for example, `sitemnemmcob2bb1?\.` matches either:

<table>
<thead>
<tr>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sitemnemmcob2bb.zip</code></td>
</tr>
<tr>
<td><code>sitemnemmcob2bb1.zip</code></td>
</tr>
</tbody>
</table>

### Star

Another metacharacter is the star ("*"), it indicates the character immediately to its left may be repeated any number of times, including zero. For example, `sitemnemmcob2bb12*3\.` matches:

<table>
<thead>
<tr>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sitemnemmcob2bb13.zip</code></td>
</tr>
<tr>
<td><code>sitemnemmcob2bb123.zip</code></td>
</tr>
<tr>
<td><code>sitemnemmcob2bb1223.zip</code></td>
</tr>
<tr>
<td><code>sitemnemmcob2bb122222223.zip</code></td>
</tr>
<tr>
<td>any string that starts with &quot;sitemnemmcob2bb1&quot; and is followed by a sequence of &quot;2&quot;'s, and ends with a &quot;3.zip&quot;.</td>
</tr>
</tbody>
</table>

### Plus

The plus (+) metacharacter indicates the character immediately preceding it may be repeated one or more times. It is just like the star metacharacter, except it doesn't match the null string. For example, `sitemnemmcob2bb12+3\.` matches:

<table>
<thead>
<tr>
<th>Pattern</th>
</tr>
</thead>
<tbody>
<tr>
<td><code>sitemnemmcob2bb13.zip</code></td>
</tr>
</tbody>
</table>
**Combinations of metacharacters**

Metacharacters can be combined. A common combination includes the period and the star metacharacters, with the star immediately following the period. This is used to match an arbitrary string of any length, including the null string. For example, `site.*` matches:

All strings starting with “site” including “sitemnemmcob2bb12223.zip” and “sitemnemmcob2bb123.ACK”.

**Digit**

Earlier it was mentioned that the backslash can turn ordinary characters into metacharacters, as well as the other way around. An example of this is, the digit metacharacter, which is invoked by following a backslash with a lower-case "d", like this: "\d". The "d" must be lower case (because there is another metacharacter, the non-digit metacharacter, which uses the upper case "D"). The digit metacharacter matches exactly one digit; that is, exactly one occurrence of "0", "1", "2", "3", "4", "5", "6", "7", "8" or "9". For example, the regular expression `sitemnemmcob2bb\d\.zip` matches:

- sitemnemmcob2bb1.zip
- sitemnemmcob2bb2.zip etc.

It does not match, for example `sitemnemmcob2bb\a.zip`.

If the digit metacharacter is combined with the other metacharacters; for example, `sitemnemmcob2bb\d+\.zip` matches:

Any string starting with "sitemnemmcob2bb", followed by a string of numbers, followed by a ".zip". (Note: the plus is used, and so "sitemnemmcob2bb.zip" is not matched.)
Non-digit

There is another metacharacter, the non-digit metacharacter, which uses the upper case "D". The non-digit metacharacter looks like "\D" and matches any character except a digit. For example “sitemnemmcob2bb\D\.zip” matches:

- sitemnemmcob2bba.zip
- sitemnemmcob2bbb.zip
- sitemnemmcob2bbc.zip

It does not match sitemnemmcob2bb1.zip, sitemnemmcob2bb2.zip or sitemnemmcob2bb3.zip.

c

hanging the "d" from lower-case to upper-case, the meaning of the digit metacharacter is reversed. This holds true for most other metacharacters of the format backslash-letter.

Word

There are three other metacharacters in the backslash-letter format. The first is the word metacharacter, which matches exactly one letter, one number, or the underscore character "_". It is written as "\w". It's opposite, "\W", matches any one character except a letter, a number or the underscore. For example, \w+.zip matches:

All strings of at least length 1 and contains only letters, numbers and underscores, followed by ".zip".

Whitespace

The whitespace metacharacter matches exactly one character of whitespace (whitespace is defined as spaces, tabs, newlines, or any character which would not use ink if printed on a printer). The whitespace metacharacter looks like this: "\s". Its opposite, which matches any character that is not whitespace, looks like this: "\S".
Braces

There are three other metacharacters you can use. The first is the braces metacharacter. This metacharacter follows a normal character and contains two number separated by a comma "," and surrounded by braces "{}". It is like the star metacharacter, except the length of the string it matches must be within the minimum and maximum length specified by the two numbers in braces. For example, sitemnemmcob2bb\{3,5\}.zip matches:

- sitemnemmcob2bb111.zip
- sitemnemmcob2bb1111.zip
- sitemnemmcob2bb11111.zip

Pipe

The alternative metacharacter is represented by a vertical bar (pipe) "|". It indicates an either/or behaviour by separating two or more possible choices. For example, site|mtrd.* matches:

- any string beginning with the strings "site" or "mtrd".

Square brackets

The last metacharacter is the brackets metacharacter. The bracket metacharacter matches one occurrence of any character inside the brackets "[]".

For example, site[mh]nemmcob2bb\.*.zip matches:

- siteNemmcob2bb.zip
- sitemnemmcob2bb.zip
- sitehnemmcob2bb.zip
Ranges of characters can be used by using the dash "-" within the brackets. For example, `sitemnemmcob2bb[1-4].zip` matches:

- sitemnemmcob2bb1.zip
- sitemnemmcob2bb2.zip
- sitemnemmcob2bb3.zip
- sitemnemmcob2bb4.zip.

The bracket metacharacter can also be inverted by placing a caret "^" immediately after the left bracket.

For example, `sitemnemmcob2bb[^02468].zip` matches:

Any string starting with "sitemnemmcob2bb" ending with anything except an even number followed by ".zip".

Within brackets, ordinary quoting rules do not apply and other metacharacters are not available. The only characters that can be quoted in brackets are "[", "]", and "\".

**Forbidden characters**

Due to the way the search function works, the following metacharacters should not be used, even though they are valid Perl metacharacters:

\b \f \t \r \n
The following are allowed within brackets (): $ ^ ! : \B

To search for parentheses within text outside of brackets, quote the parentheses "( )".

**Things to remember**

The following information should be noted about regular expressions.
The search is case insensitive, the examples below all search for the same text therefore, there is no need to capitalise.

<table>
<thead>
<tr>
<th>Expression</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>sitemnemmcob2bb12345.zip</td>
<td>Matches exactly &quot;sitemnemmcob2bb12345.zip&quot;</td>
</tr>
<tr>
<td>.*</td>
<td>Matches all strings</td>
</tr>
<tr>
<td>(site</td>
<td>mtrd).zip</td>
</tr>
<tr>
<td>.<em>aemo.</em></td>
<td>Matches all text that contains &quot;aemo&quot;</td>
</tr>
<tr>
<td>.<em>aemo.</em>.zip</td>
<td>Matches all zip extensions that contain &quot;aemo&quot;</td>
</tr>
</tbody>
</table>

Metacharacters must still have the proper case. This is especially important for metacharacters whose case determines whether their meaning is reversed or not.

Outside of the brackets metacharacter, the parentheses must be quoted with brackets and braces to get the search function to take them literally.
References

Rules and Procedures


**B2B Procedures.** The Business to Business (B2B) Procedures prescribe the content of, the processes for, and the information participants provide to support B2B Communication. AEMO's website > Electricity > Retail and Metering > Business to business procedures > Current versions.

**AEMO's website**

*aseXML Standards,* links to guidelines, schemas, change process, sample files, and white papers.

*B2B e-HUB Participant Accreditation and Revocation Process.* Explains the process AEMO adopts when accrediting a person as a *B2B e-Hub Participant* to use the *B2B e-HUB* and the circumstances where AEMO can revoke accreditation.

*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.*


*Guide to MSATS and B2B Terms,* defines the terms in the electricity retail market.

*Guide to Retail Electricity Market Procedures,* provides a list of procedures and supporting documents to assist *Market Participants* in understanding the overall MSATS framework.

*Guide to Transition of aseXML,* provides information for participants transitioning to another aseXML schema version.

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**Guide to User Rights Management**, assists Participant Administrators to manage their participant user’s access to AEMO’s systems. It also explains how to set up single user IDs for use with the Set Participant function in AEMO’s web portals.


**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 to utilise these APIs.
Needing Help

Web portal 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:
  - Pre-production: https://msats.preprod.nemnet.net.au
  - Production: https://msats.prod.nemnet.net.au
- Either the current or previous versions of Microsoft Internet Explorer or Google Chrome.
- Access to MarketNet; if your company is a registered participant, you probably 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 web portals. For more details see Guide to User Rights Management.
  PAs are set up during participant onboarding, if you don’t know who your company’s PA is, contact AEMO’s Support Hub.

Supported web browsers

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

<table>
<thead>
<tr>
<th>Browser</th>
<th>Platform</th>
<th>Current</th>
<th>More information</th>
</tr>
</thead>
<tbody>
<tr>
<td>Microsoft Edge (Microsoft recommended)</td>
<td>Windows 10</td>
<td>Edge</td>
<td><a href="https://www.microsoft.com/en-au/windows/microsoft-edge">https://www.microsoft.com/en-au/windows/microsoft-edge</a></td>
</tr>
</tbody>
</table>
Environment access

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.

Setting a participant

Providing you have permission to do so, the Set Participant function allows you to act for another participant without having to log out, change IDs and log in again. The participant you are acting for is indicated in the top right of the Markets Portal. For permission to see other participant IDs using Set Participant, see your company’s PA.

When you are using the Set Participant function, you can only log into MSATS once on the same computer.
To use Set Participant:

1. On the MSATS main menu, click **Set Participant**. If Set Participant is unavailable, you do not have the correct permissions. Ask your company's Participant Administrator to consider granting you access to use the Set Participant function. For help, see **Guide to User Rights Management**.

2. In the **Set Current Participant** interface, find the Participant ID you want to act for.

3. The participant you are acting for displays in the top-right corner.

4. To return to the Participant ID you logged in with, click **Set Participant and Reset to <Participant ID>** participant.
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.

Information to provide

Please provide the following information when requesting assistance from AEMO:

- Your contact details
- Company name
- Company ID
- System or application name
- Environment: production or pre-production
- Problem description
- Screenshots

For AEMO software-related issues please also provide:

- Participant ID (if Data Interchange (DI) problem)
- Version of software
- Properties or log files
- PDR Monitor support dump and DI instance name (if DI problem)

Feedback

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

## A

- About B2B Transforms and Protocol 55
- About protocols 57
- About the B2B Hub Queue 12
- About transforms 56
- Access B2B self-accreditation 62
- Access B2B transforms and protocols 58
- Access the B2B Hub Queue 14
- Acknowledge a single message 18
- Acknowledge several messages 19
- Advanced Searching 79
- AEMO's website 88
- Auto Delete Status 51
- Auto Delete Status user rights access 51

## B

- B2B Archive 22
- B2B Archive user rights access 22
- B2B Browser 3
- B2B Hub Dashboard 54
- B2B Hub Dashboard user rights access 54
- B2B Hub Queue 11
- B2B Hub Queue user rights access 13
- B2B Inbox 5
- B2B Inbox Archive 24
- B2B Inbox Archive user rights access 24
- B2B Inbox User rights access 6
- B2B Outbox 8
- B2B Outbox user rights access 8
- B2B Responder 68
- B2B Responder user access rights 69
- B2B Self-Accreditation 61
- B2B Transforms and Protocol 55
- B2B Transforms and Protocols user access rights 58
- Backslash 81
- Braces 85
- Browsing the B2B Archive 23
- Browsing the B2B Inbox Archive 24

## C

- Checking the B2B stopfile 59
- Combinations of metacharacters 83
- Common expression examples 87
- common SQL patterns 80
- Complete the tests 62
- Creating a New Transaction 26
- Creating a transaction 69

## D

- Delete a single message or acknowledgement 20
- Delete messages or acknowledgements 20
- Delete several acknowledgements 21
- Delete several messages or acknowledgements 21
- Digit 83
- Displaying flow control information 50

## E

- Environment access 91

## F

- Feedback 93
- File name / Context ID 34
- Flow Control Info 50
- Flow Control Info user rights access 50
- Forbidden characters 86

## I

- Information to provide 93

## M

- Metacharacters 81
- Modify Functionality 47
- Modify Functionality user rights access 48
- Modifying functionality 48
- Monitor test progress 64
N
New Transaction 25
New transaction user rights access 31
Nominating B2B transforms 58
Non-digit 84

P
Paste Transactions 76
Period 81
Pipe 85
Plus 82

Q
Question mark 82

R
References 88
Reject a single message 20

S
Search Activity Log 43
Search Activity Log user rights access 44
Search Trans Log 37
Search Trans Log user rights access 37
Search Transaction 73
Searching related records 42
Searching the activity log 44
Searching the B2B Inbox 6
Searching the B2B Outbox 9
Searching the transaction log 37
Select your protocol preference 60
Set up B2B Delivery Method 61
Setting a participant 91
Simple regular expressions 80
SQL patterns 80
Square brackets 85
Star 82
Status Report 52
Status Report user rights access 52
Submit test results to AEMO 66
Supported web browsers 90

T
Testing Transactions 77
Transaction types and notified party roles 31
Transaction types and Recipient roles 30
Turning auto delete status on and off 51

U
Upload File 33
Upload File user rights access 33
Uploading a file 35

V
Viewing a transaction 41
Viewing the B2B hub dashboard 54
Viewing the status report 52

W
Web portal requirements 90
Whitespace 84
Word 84

X
XML files 34

Z
Zip files 34