IDX - Industry Data Exchange - May 2027

0.01 October 2026

Pre-production: Monday 1 March 2027 (TBC)

Production: Sunday 2 May 2027



Important notice

Purpose & audience

This document describes the technical changes required to participant's systems for the AEMO Release Schedule - System Month Year (Release). The Australian Energy Market Operator (AEMO) provides this information as a service targeting business analysts and IT staff in participant organisations. It provides guidance about the changes to their market systems under the National Gas or Electricity Rules (Rules), as at the date of publication.

How to use this document

- If you have questions about the business aspects of these changes, please see Consultations on AEMO's website.
- The references listed throughout this document are primary resources and take precedence over this document.
- Unless otherwise stated, you can find resources mentioned in this guide on AEMO's website.
- **Text in this format** is a link to related information.
- **Text in this format**, indicates a reference to a document on AEMO's website.
- **Text in this format** is an action to perform in the Markets Portal.
- This document is written in plain language for easy reading. Where there is a discrepancy between the Rules and information or a term in this document, the Rules take precedence.
- Glossary Terms are capitalised and have the meanings listed against them in the Glossary.
- Rules Terms have the meaning listed against them in the **National Gas Rules** or **National Electricity Rules** (Rules).

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Distribution

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Document identification

Prepared by: AEMO Digital

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Version history

0.01 Initial creation

Documents made obsolete

The release of this document changes only the version of IDX - Industry Data Exchange - May 2027.

Support hub

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1 Introduction

1.1 Purpose

This release describes new Industry Data Exchange (IDX) platform capabilities supporting data exchange across electricity and gas markets using various delivery channels, payload formats, and message exchange patterns. These capabilities include:

- Asynchronous B2B message exchange
- Fire-and-forget and fan-out message delivery
- Inquiry-based message exchange
- API and large-file delivery channels
- Event notifications
- Flow control
- Message and transaction logging
- Message and transaction acknowledgements
- Schema version management
- Reporting through IDX.

1.2 Audience

AEMO provides this information targeting business analysts and IT staff in Registered Participant companies.

1.3 Status

Version	Status
0.01	This release schedule is for participant review/information only. Please provide feedback in AEMO's website **contact us** form

1.4 Release dates

Scheduled for implementation in:

- Pre-production: Monday 1 March 2027 (TBC)
- Production: Sunday 2 May 2027

1.5 Version numbers

AEMO releases new versions of this document as the technical requirements are streamlined.

Incremental version numbers such as 1.01, 2.01 and so on mean there is a minor change to the technical specification.

Major version numbers such as 1.00, 2.00 means there are substantial changes to the technical specification. Participants must carefully review the changes detailed in this Release.

1.6 Changes in this version

No changes, this is the initial version.

1.7 Related resources

Once published, these resources take precedence over this technical specification

These guides and resources are updated according to this technical specification and published for the pre-production Release Date.

Title	Description	Status
Industry Data Exchange	Describes how to use the IDX web interfaces and APIs	Not started
Industry Data Exchange Platform Standard	Describes the technical standards, protocols, and payloads for data exchange on the Industry Data Exchange (IDX) platform	Not started
TLS Certificate Management API	API to self-manage their AEMO-signed TLS certificates	Not started

1.8 Related software

Software	Available
AEMO Gateway Software	TBC

1.9 Related technical specifications

Title	Description
IDAM - Identity and Access Management - May 2027	Describes AEMO's new unified identity and access management platform for participants operating under the National Electricity and National Gas Rules

1.10 Approval to change

There is no approval or agreement to change required from participant change controllers for this Release.

1.11 Market systems user group meetings

The Market Systems User Group (MSUG) is an industry user group established to discuss NEM wholesale and retail IT systems releases. Its purpose is to facilitate the continuing improvement of AEMO's IT systems by seeking feedback and collaboration from participants.

MSUG meetings are open to all interested parties, with invitations sent to all included on the distribution list. If you have a technical question for a project and want to attend the MSUG ask your company's support team to include your email address in their **AEMO Help Desk Bulletin (CRM)** distribution list.

2 Proposed Timeline

The dates for the Market System User Group Meetings (MSUG) are tentative. We will provide an invitation one week prior to the meeting.

Milestone	Date	Description
Approval required	n/a	See **Approval to change**
Revised Technical Specification	November 2026	AEMO releases new versions of this document as the technical requirements are streamlined. During the project this document is the source of truth From the production release, the technical specification becomes final and the **related documents** become the source of truth **Technical Specification Portal**
Related Documents publication	Monday 1 March 2027 (TBC)	Release of guides and resources mentioned in Related resources on page 2
MSUG meeting	21 October 2026	Market Systems User Group Meeting (MSUG) to review the technical specification and ask AEMO technical SMEs questions This date is tentative. The Knowledge Management Team provides the invitation prior to the meeting
Pre-production release	Monday 1 March 2027 (TBC)	AEMO implements core IDX functionality to pre-production for participant testing AEMO has full access to the system during this period Participant access is not restricted; however, the data content or system availability is not guaranteed
Coordinated industry test	3 March 2027 - 2 May 2027 (TBC)	AEMO coordinated testing with participants
Production release	Sunday 2 May 2027	AEMO implements core IDX functionality and web applications to production

3 Participant Impact

3.1 Basic Power Quality Data

The following functionality and enhancements in this release supports participants managing Basic Power Quality Data (BPQD) in Industry Data Exchange (IDX):

- Submit File web interface and API
- Hub Queue web interface and API
- Manage Subscriptions functionality

All other capabilities and use cases described in this technical specification are available only in the IDX pre-production. In future, AEMO intends to make these capabilities available in production, subject to industry consultation and approval.

3.2 IDX web applications

New and updated IDX web applications in Markets Portal to monitor, troubleshoot, and manage B2B and B2M data exchanges.

Interface	Description
Hub Queue	New Markets Portal interface for searching, viewing, downloading, acknowledging, rejecting, and deleting messages in a participant's outbound queue
Flow Control	Monitoring and managing message flows for B2B and B2M business functions and resources. Enhancements to support async data exchange patterns in pre-production only
Manage Subscriptions	New Markets Portal interface for managing data exchange preferences, WebSocket event subscriptions, resource subscriptions, and schema preferences
Participant Status	Displays the current message flow status for IDX business functions. No changes for this release
Submit File	New Markets Portal interface for manually submitting B2B and B2M transactions through the Markets Portal
Transaction Log	Viewing and managing transactions. Enhancements to support async data exchange patterns including message acknowledgements and transaction acknowledgements in pre-production only

3.3 IDX service APIs

3 new IDX service APIs to manage and support message data exchange:

- Hub Queue: Retrieve, acknowledge, reject, and delete messages in the outbound queue
- Submit File: Submit B2B and B2M messages to IDX for validation and processing.
- Participant Management: Details TBC

3.4 AEMO gateway software

Updates to the AEMO Gateway Software to support this release. It is installed in a participant's environment providing a gateway to support communications to and from AEMO for the Industry Data Exchange (IDX).

3.5 Access

Participant administrators have new User Rights Management (URM) entities for managing their Participant User access to PQD and IDX APIs and Markets Portal interfaces.

Entity	Description	Type
TBC	Manage Subscriptions	Interactive
SUBMIT_FILE	Submit File	Interactive
OWNX_PIN	OWNX	Interactive
TBC	CER	Interactive
TBC	MTPASA report	Interactive
TBC	Next Day Dispatch Report	Interactive
TBC	NMI Discovery	Interactive
TBC	Retail Snapshot Report	Interactive

4 Industry Data Exchange

Industry Data Exchange (IDX) Release 2 extends the platform's capabilities, supporting business data exchange across API and Large File Share channels using asynchronous, fire-and-forget, fan-out, inquiry, and report-delivery message patterns. The broader capabilities and use cases are available in pre-production for industry testing, or for internal testing where stated.

In production, Basic Power Quality Data (BPQD) uses the Submit File, Hub Queue, Manage Subscription interfaces and APIs.

Each use case applies a data exchange message pattern to a business scenario, a delivery channel, and combines supporting capabilities such as subscriptions, event notifications, flow control, acknowledgements, transaction logging, schema management, and archive handling. They validate IDX platform capabilities and integration patterns and do not represent final production business transactions or processes.

4.1 High level changes

Capability / use case	Description	Release impact	Availability
OWNX	Supports NEM Retail B2B One-Way Notification Exchange transactions through IDX	Introduces asynchronous B2B message exchange over APIs, including MACK, TACK, Transaction Log status updates, and flow control with message acknowledgements (MACK)	Pre-production industry testing
Dynamic Operating Envelope (DOE)	API-based fan-out pattern for Consumer Energy Resources (CER), where IDX distributes submitted DOE information to applicable participants	Introduces the CER API, fan-out routing, outbound flow control, Transaction Log updates, and event notifications for DOE messages	Pre-production industry testing
MIRN listing	Demonstrates Gas Retail MIRN Listing file fan-out through IDX using the Large File Share channel	Validates large file exchange, Distributor-to-Retailer routing, event notification, Transaction Log tracking, and SFTP retrieval	Internal testing only
MTPASA report	MTPASA reports available through the IDX reporting framework using AEMO CSV payload conventions	Demonstrates report delivery, AEMO CSV payload handling, schema preferences, event notification, and the Large File Share channel	Pre-production industry testing
Next Day Dispatch Report	Next Day Dispatch reports available through the Large File Share channel	Notifies participants when reports are available, supports SFTP retrieval, and records acknowledgement and delivery status	Pre-production industry testing

Capability / use case	Description	Release impact	Availability
NMI Discovery	Enables participants to submit NMI Discovery enquiries through IDX using GraphQL	Demonstrates the inquiry flexible message pattern, GraphQL request handling, and API Gateway controls	Pre-production industry testing
Retail Snapshot Report	Provides Retail Snapshot report delivery through IDX for NEM Retail participants	Demonstrates report delivery through the Large File Share channel, event notification, Transaction Log tracking, and participant retrieval from outbound folders	Pre-production industry testing
Settlement Reports	Provides Settlement PDF report delivery through IDX using unstructured PDF payloads	Demonstrates asynchronous outbound report delivery, API-based retrieval, event notification, Transaction Log tracking, and acknowledgement processing	Internal testing only
Hub Queue web interface	Find, retrieve, acknowledge, and manage messages in their IDX outbound queue	Provides message search, retrieval, acknowledgement, and where supported, deletion, and payload download	Production
Manage Subscriptions web interface	Manage eligible data exchange subscriptions, business function event subscriptions, resource subscriptions, and schema preferences	Introduce subscriptions to: - IDX or legacy data exchange - receive business function event notifications - business function resource subscription and schema preferences.	Pre-production industry testing
Submit File web interface	Enables authorised participants to manually submit supported B2B and B2M message files through the Markets Portal	Provides file upload, validation, and submission for supported business functions	Production
IDX Service APIs	Provides service APIs that support IDX message exchange, file submission, queue management, subscriptions, logging, and archive retrieval	Introduces or updates the Hub Queue, Submit File, Manage Subscriptions, Transaction Log, Flow Control, Event Notification, Business Function Information, and Archive APIs	Production
IDAM Integration	Provides identity and access controls for IDX interfaces and APIs	Applies participant access through IDAM and URM configuration	TBC

5 IDX use cases

The IDX use cases included in this release describes how IDX supports a business function, delivery channel, message pattern, event notification, flow control, logging, schema preferences, and archive handling where applicable.

The use cases are available for pre-production testing unless the section states they are for internal testing only.

Use cases are demonstration and testing scenarios. They validate IDX platform capabilities and integration patterns in pre-production only. They do not represent final business transactions or processes in production.

5.1 Common IDX capabilities

5.1.1 Archive and TTL

Each message in a receiving participant's outbound queue is subject to the Time to Live (TTL) configured for applicable Business Function Resources. If the message remains pending when the Time to Live expires, IDX removes it from the outbound queue in accordance with the standard IDX lifecycle. Any message removed from the outbound queue is available in the archive, up-to the archive retention period. The TTL and archive retention period are defined for each applicable business function resource.

Receiving participants are expected to delete messages after successful retrieval. Messages are deleted by using either the:

- Business function API - DELETE /<business function>/{messageContextId} operation.
- IDX Transaction Log web application in the Markets Portal.

5.1.2 Business function details

You can retrieve configuration details by querying the Business Function Information API. It includes the archive retention settings, TTL, schema versioning, and schema transition windows.

5.1.3 Event notifications

IDX publishes WebSocket event notifications to subscribed participants when outbound messages, files, or reports are ready for retrieval. Participants can use the notification to retrieve the item from the applicable queue, channel, or business function API. Where supported, participants can also poll

using the relevant business function API instead of relying on event notifications. For more details, see **Manage Subscriptions** and **Event Notification API**.

5.1.4 Flow control

Outbound queues for each applicable business function are validated for all receiving participants. Requests are rejected if any participant is in a stopped state. IDX automatically applies flow control when the number of pending messages for a recipient outbound queue reaches defined queue thresholds. You can view the flow control status for a business function in the Flow Control web application or making a query with the Flow Control API.

5.1.5 Schema preferences

Schema preferences control the payload schema version a participant receives for subscribed IDX resources using managed schemas. IDX applies the participant's preference during schema change window, where the business function supports schema version selection. More details to follow.

5.2 Dynamic Operating Envelope

Dynamic Operating Envelope (DOE) demonstrates API-based fan-out for Consumer Energy Resources (CER). In this use case, a participant submits DOE information to IDX, and IDX validates, routes, and distributes the information to the applicable receiving participants based on configured allocation rules. The use case shows how IDX manages fan-out delivery, outbound queues, flow control, event notifications, message logging, schema version preferences, and archive retention for a CER business function resource in pre-production.

Feature	Description
Access	URM entity TBC. Access applies to participants authorised to submit or receive DOE messages through the CER business function resource.
Acknowledgements	MACK and TACK processing for the initiating participant.
API reference	TBC. DOE is exposed through the CER API.
Event notification	Participants subscribed to DOE events receive WebSocket notifications when outbound DOE messages are ready for retrieval. Polling is supported as an alternative.
Flow control	IDX validates all applicable receiving participant outbound queues before accepting the DOE fan-out request. The request is rejected if any target participant is in a stopped state or cannot receive another outbound message.
Logging	Transaction Log shows inbound DOE submission status and outbound delivery status for each receiving participant, including validation, routing, retrieval, deletion, expiry, and archive outcomes.

Feature	Description
Message pattern	Async message pattern over the API channel for inbound messages. Fire-and-Forget fan-out message pattern for outbound messages. IDX accepts one DOE message submission and distributes outbound messages to multiple receiving participants based on configured allocation rules.
Participants and routing	An authorised submitting participant sends DOE information to IDX. IDX routes the information to applicable receiving participants, such as LNSPs, using configured NMI allocation rules.
Schema versioning	IDX can transform outbound DOE payloads to the schema version configured for the receiving participant in Manage Subscriptions, where schema preferences and transformation rules apply.
TTL and archive retention period	Values TBC. Each outbound DOE message remains available in the receiving participant's outbound queue until it is deleted by the participant or removed when the TTL expires. Archived payloads remain available until the configured archive retention period ends.

5.2.1 Process flow

1. The initiating participant submits a DOE message to IDX through a CER API request.
2. IDX validates the message and sends a hub acknowledgement to the initiating participant .
3. IDX validates the transactions, splits them by recipient, and sends a separate outbound DOE message for each aggregator.
4. IDX sends a transaction acknowledgement (TACK) to the initiating participant to indicate success or failure of the transactions.
5. Inbound and outbound transaction activity is recorded in the Transaction Log.
6. Aggregators subscribed to DOE events are notified when their outbound DOE messages are ready for retrieval.
7. Aggregators use the CER API retrieve the DOE message from IDX.
8. Where schema preferences apply, IDX provides the payload in the Aggregator's configured schema version.
9. Aggregators delete retrieved messages after successful processing.
10. If an Aggregator does not delete a message, IDX removes it when the configured TTL expires.
11. IDX records retrieval, deletion, expiry, and archive activity in the Transaction Log.

5.3 MIRN listing

MIRN Listing demonstrates a Gas Retail fan-out scenario using the Large File Share channel. A Gas Distributor submits a MIRN Listing file to IDX, and IDX routes the file to the relevant Gas Retailers using configurable Distributor-to-Retailer mapping rules. The use case validates large file exchange, event notification, message logging, and participant retrieval using SFTP.

Internal testing only. Not available for participant testing in pre-production.

Feature	Description
Access	URM entity TBC. Access applies to the Gas Retail participants involved in MIRN Listing exchange
Acknowledgements	N/A
Event notification	Participants subscribed to notifications receive WebSocket events when outbound MIRN Listing files are ready for retrieval. Polling is supported as an alternative
Flow control	N/A. Delivery uses the Large File Share channel and outbound file lifecycle controls
Logging	Transaction Log shows inbound and outbound MIRN Listing message statuses, including delivery lifecycle activity
Message pattern	Async fan-out pattern over the Large File Share channel
Participants and routing	Gas distributors submit MIRN Listing files. IDX routes files to gas retailers using configurable Distributor-to-Retailer mapping rules Participants confirm successful processing by deleting retrieved files from the MFT server
Schema versioning	No schema version transformation
TTL and archive retention period	TBC

This business function resource is to demonstrate the fan-out message pattern on the Large File channel.

5.3.1 Process flow

Details TBC

5.4 NMI Discovery

NMI Discovery demonstrates flexible inquiry services using a GraphQL API. Retail participants submit flexible queries to retrieve NMI discovery information, with IDX validating the query and returning a response containing the participant-defined fields. This use case validates dynamic query capability, API Gateway controls, and using GraphQL for flexible information retrieval.

Feature	Description
Access	URM entity TBC. Access applies to NEM Retail participants
Acknowledgements	N/A. NMI Discovery uses a synchronous inquiry pattern and returns the response directly to the requesting participant
API reference	TBC. The use case uses a GraphQL endpoint
Event notification	N/A. NMI Discovery is a synchronous inquiry service and does not rely on outbound message-availability events
Flow control	N/A. API Gateway throttling and rate limiting apply to NMI Discovery requests
Logging	N/A
Message pattern	Outbound inquiry flexible using GraphQL (API)
Participants and routing	Retail participants submit GraphQL queries to IDX. IDX validates the query and returns the requested response fields
Payload format	JSON
Schema versioning	N/A. GraphQL supports client-defined response fields rather than payload version transformation
TTL and archive retention period	N/A. The response is returned synchronously and is not held in an outbound queue.

More details to follow.

5.5 OWNX

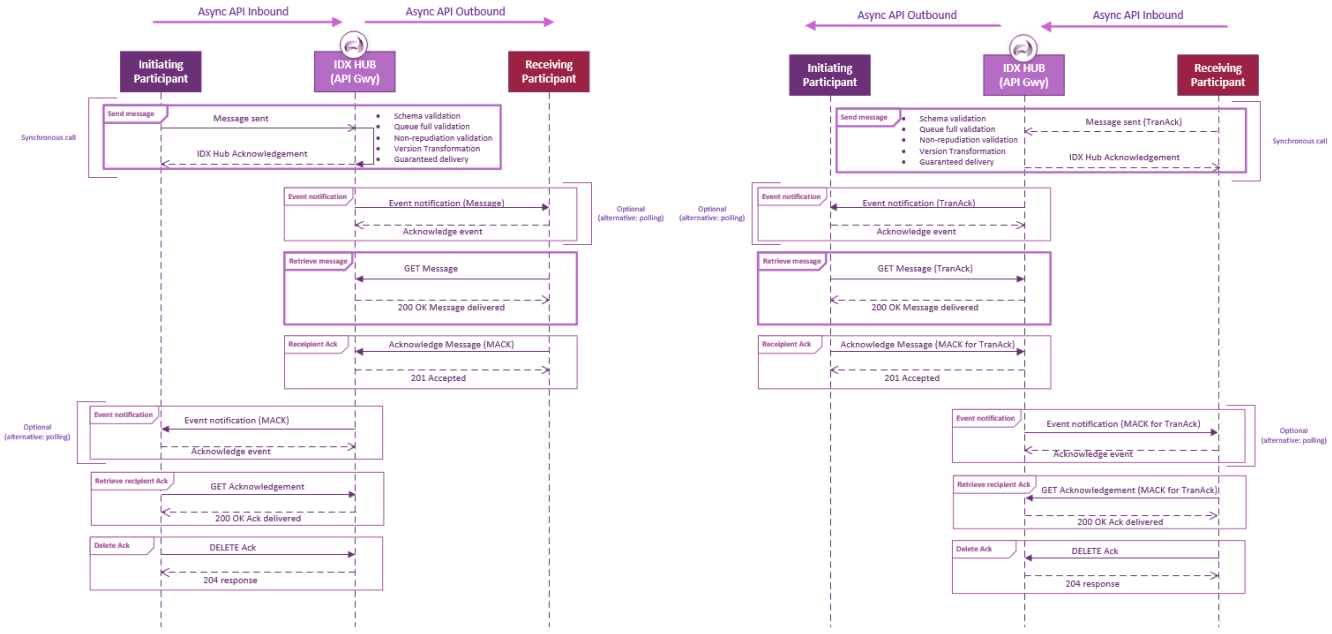
OWNX demonstrates asynchronous B2B data exchange for planned interruption notifications. Initiating participants send OWNX messages through IDX for delivery to the recipient. The use case validates asynchronous API exchange, routing, flow control, event notification, payload version transformation, manifest and replay, message logging, and AEMO Gateway Software integration.

Feature	Description
Access	URM entity OWNX_PIN
Acknowledgements	The receiving participant returns a Message Acknowledgement (MACK) and Transaction Acknowledgement (TACK)
API reference	TBC
Event notification	Participants subscribed to notifications receive WebSocket events when outbound OWNX messages are ready for retrieval.
Flow control	IDX validates the outbound queue of the target participant. The inbound request is rejected if the target participant is in a stopped state
Logging	Transaction Log shows inbound and outbound OWNX message statuses, including message delivery and lifecycle tracking
Message pattern	Asynchronous inbound and outbound B2B data exchange over APIs
Participants and routing	The initiator sends planned interruption notifications to recipients
Payload format	JSON
Schema versioning	IDX transforms payloads to the schema version configured for the participant in Manage Subscription web interface Note: IDX does not transform an IDX json payload into aseXML, or aseXML into json.
TTL and archive retention period	Values TBC

5.5.1 Process flow

1. The initiating participant submits an OWNX Planned Interruption Notification to IDX using the inbound asynchronous B2B API pattern.
2. IDX validates the request, including API, schema, and queue capacity.
3. The inbound transaction is stored in the Transaction Log.

4. The message is available in the recipient's outbound queue.
5. A WebSocket event notification is sent to the recipient if subscribed to OWNX events. Alternatively, the recipient can poll for available messages using the OWNX API GET metadata endpoint.
6. The recipient retrieves the OWNX message metadata and payload using the API or in the Hub Queue interface. IDX digitally signs the outbound payload before returning it to the recipient
7. The recipient validates the message and returns a Message Acknowledgement (MACK).
8. The recipient returns a Transaction Acknowledgement (TACK).
9. The Transaction Log is updated with the acknowledgement status.
10. IDX forwards the MACK, and the TACK where applicable, to the initiating participant.
11. IDX applies the outbound OWNX message lifecycle rules, including deletion, expiry, and archive retention.



5.5.2 Acknowledgements

OWNX uses message and transaction acknowledgements as part of the asynchronous B2B exchange.

After retrieving and validating an OWNX message, the recipient returns a Message Acknowledgement (MACK). The MACK indicates the outcome of the receiving participant's message-level validation.

Where required by the applicable B2B process, the receiving participant also returns a Transaction Acknowledgement (TACK) to communicate the outcome of transaction-level processing.

When IDX receives the MACK, the Outbound Framework updates the applicable message records and publishes the updated status to the Transaction Log. The B2B Framework then forwards the MACK to the initiating participant.

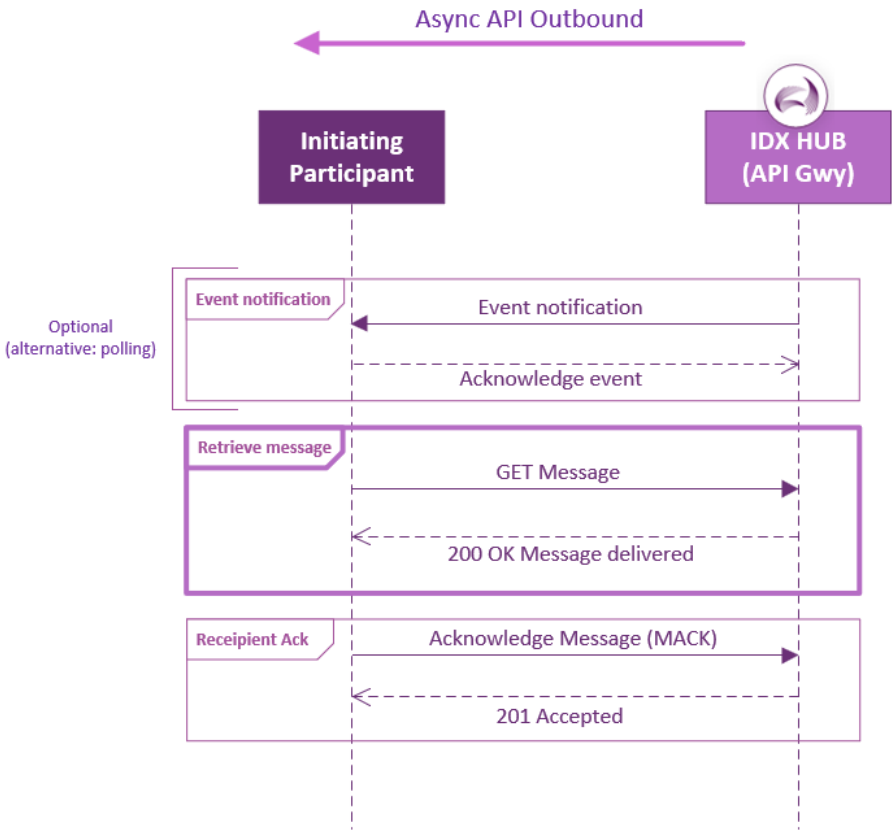
5.6 MTPASA report

The MTPASA report demonstrates asynchronous outbound report delivery over APIs for NEM Wholesale participants. AEMO publishes MTPASA reports to eligible Retailers and Generators, and participants retrieve the reports when they become available. The use case validates API-based report retrieval, event notification, acknowledgement processing, payload version transformation, manifest and replay, message logging, and AEMO Gateway Software integration.

Feature	Description
Access	URM entity TBC. Access applies to NEM Wholesale participants authorised to receive MTPASA reports
Acknowledgements	Participants submit a MACK after successfully processing the retrieved report
API reference	TBC
Event notification	IDX publishes event notifications to subscribed participants when MTPASA reports are ready for retrieval. Polling is supported as an alternative
Flow control	Throttling and rate limiting applied on the API Gateway
Logging	Transaction Log shows inbound and outbound statuses for MTPASA report delivery and retrieval lifecycle activity
Message pattern	Asynchronous outbound B2M report delivery over APIs
Participants and routing	AEMO publishes MTPASA reports to Retailers and Generators
Payload format	aemocsv
Schema versioning	IDX transforms payloads based on participant preference in the Manage Subscriptions interface. N and N-1 versions can be available during the schema upgrade window
TTL and archive retention period	Values TBC

5.6.1 Process flow

1. AEMO generates MTPASA report files through the NEM Reports framework.
2. IDX makes the applicable AEMO CSV version available according to the participant's schema preferences. N and N-1 versions are available during the schema upgrade window.
3. IDX records report delivery activity in the Transaction Log and publishes the delivery pending status before notification.
4. IDX publishes Event notifications to subscribed participants when MTPASA reports are ready for retrieval.
5. Participants can retrieve the metadata list for available MTPASA reports using the MTPASA API.
6. Participants retrieve the MTPASA report payload through the API channel.
7. AEMO Gateway Software can write the retrieved payload to the participant's local folder where the participant uses AEMO Gateway Software.
8. Participants delete retrieved reports after successful processing.
9. IDX records retrieval, deletion, expiry, and archive activity in the Transaction Log.



5.7 Next day dispatch report

The Next Day Dispatch report demonstrates asynchronous outbound report delivery through the Large File Share channel. AEMO publishes Next Day Dispatch report packages to eligible generators and traders, who retrieve the files from IDX using SFTP. The use case includes large file delivery, event notification, acknowledgement by file submission, payload version transformation, message logging, TTL cleanup, and AEMO Gateway Software integration.

Feature	Description
Access	URM entity TBC. Access applies to NEM Wholesale participants authorised to receive Next Day Dispatch reports
Acknowledgements	Participants submit an acknowledgement file after successfully processing the retrieved report package
Event notification	Subscribed participants receive WebSocket events when Next Day Dispatch report files are ready for retrieval
Flow control	Only the specific trigger or queue affected
Logging	TBC
Message pattern	Asynchronous outbound B2M report delivery over Large File Share
Participants and routing	AEMO publishes Next Day Dispatch reports to Generators and Traders
Payload format	AEMOCSV
Schema versioning	IDX transforms payloads based on participant preference in the Manage Subscriptions interface. N and N-1 versions can be available during the schema upgrade window
TTL and archive retention period	Automated TTL removes old files and manages outbound queue size. Archive retention value is TBC

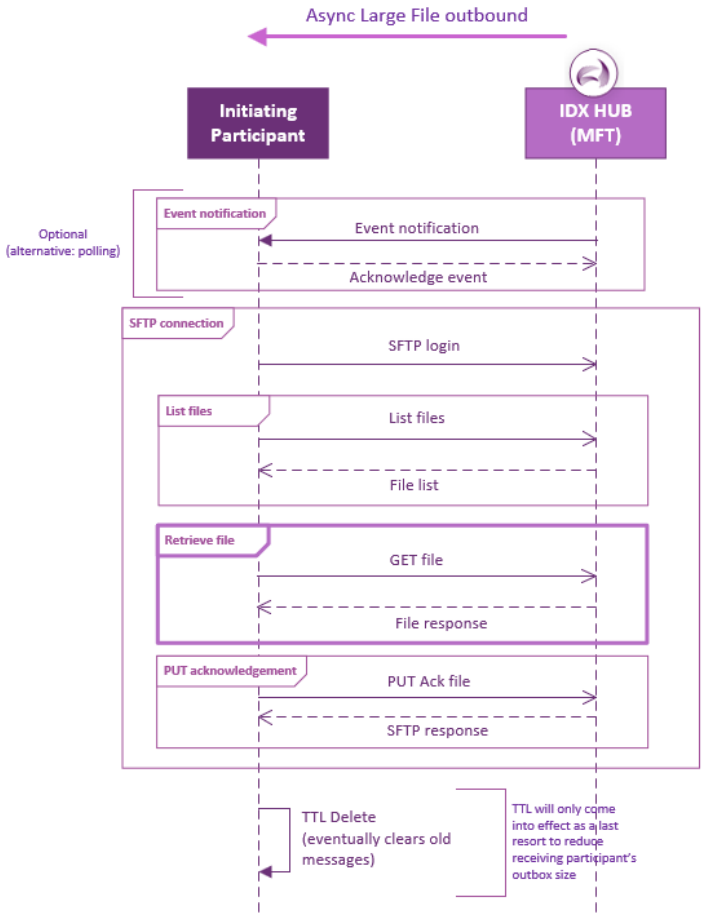
5.7.1 Process flow

Next Day Dispatch uses an outbound pull pattern over the Large File Share channel. AEMO prepares the report files, and eligible Generators and Traders retrieve them from IDX.

1. IDX prepares the applicable AEMO CSV report according to the participant's schema preference. N and N-1 versions can be available during the schema upgrade window.

2. IDX creates outbound report records and records report activity in the Transaction Log. Report files are digitally signed before retrieval.

3. IDX publishes WebSocket event notifications to subscribed participants when Next Day Dispatch report files are ready for retrieval.
4. Participants connect to IDX through the Large File Share channel and list available files.
5. Participants retrieve the report package using SFTP. The package contains the AEMO CSV report file and the corresponding digital signature file.
6. Participants submit an acknowledgement file after successful processing, where required.
7. Participants delete retrieved files after successful processing.
8. If a participant does not delete a file, IDX removes it when the configured TTL expires.
9. IDX records retrieval, acknowledgement, deletion, expiry, and archive activity in the Transaction Log.



5.8 Retail snapshot report

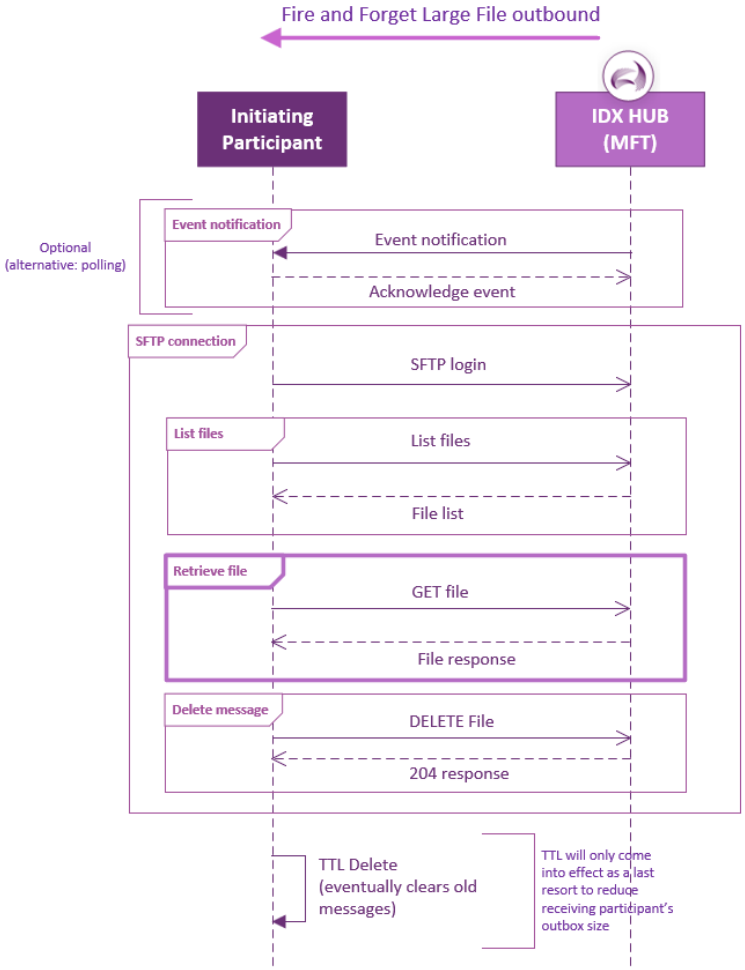
The Retail Snapshot report demonstrates asynchronous outbound report delivery through the Large File Share channel for NEM Retail participants. AEMO publishes report packages to eligible market participants, who retrieve and process the files from IDX using SFTP. The use case validates large file delivery, event notification, participant acknowledgement by file deletion, payload version transformation, message logging, TTL cleanup, and AEMO Gateway Software integration.

Feature	Description
Access	URM entity TBC. Access applies to eligible NEM Retail market participants
Acknowledgements	Participants acknowledge processing by deleting successfully retrieved files
API reference	N/A. This use case uses the Large File Share channel rather than an API retrieval pattern
Event notification	Subscribed participants receive WebSocket events when Retail Snapshot report files are ready for retrieval
Flow control	Large File Share delivery uses file lifecycle controls
Logging	What statuses matter for this use case
Message pattern	Asynchronous outbound B2M report delivery over Large File Share
Payload format	JSON
Participants and routing	AEMO publishes Retail Snapshot reports to eligible market participants
Schema versioning	IDX transforms payloads based on the participant preference configured in Manage Subscription
TTL and archive retention period	Automated TTL removes old files and manages outbound queue size. Archive retention value is TBC

5.8.1 Process flow

1. AEMO prepares Retail Snapshot report files for eligible NEM Retail participants.
2. AEMO creates Retail Snapshot report files and delivers them in the participant's outbound Large File Share location.
3. IDX digitally signs the file, compresses the report package, and publishes message activity to the Transaction Log.
4. IDX publishes WebSocket event notifications to subscribed participants when Retail Snapshot report files are ready for retrieval.
5. Participants establish an SFTP connection and authenticate with IDX Hub through the Large File Share channel.
6. Participants list available files and retrieve a compressed ZIP package containing the report data and the corresponding digital signature file.

7. Where AEMO Gateway Software is used, it writes the retrieved package to the participant's local folder.
8. Participants delete files after successful retrieval and processing. The delete action acknowledges processing and is equivalent to a successful no-content response.
9. If a participant does not delete a file, IDX removes it when the configured TTL expires to manage outbound queue size.
10. IDX records retrieval, deletion, expiry, and cleanup activity in the Transaction Log.



5.9 Settlement PDF reports

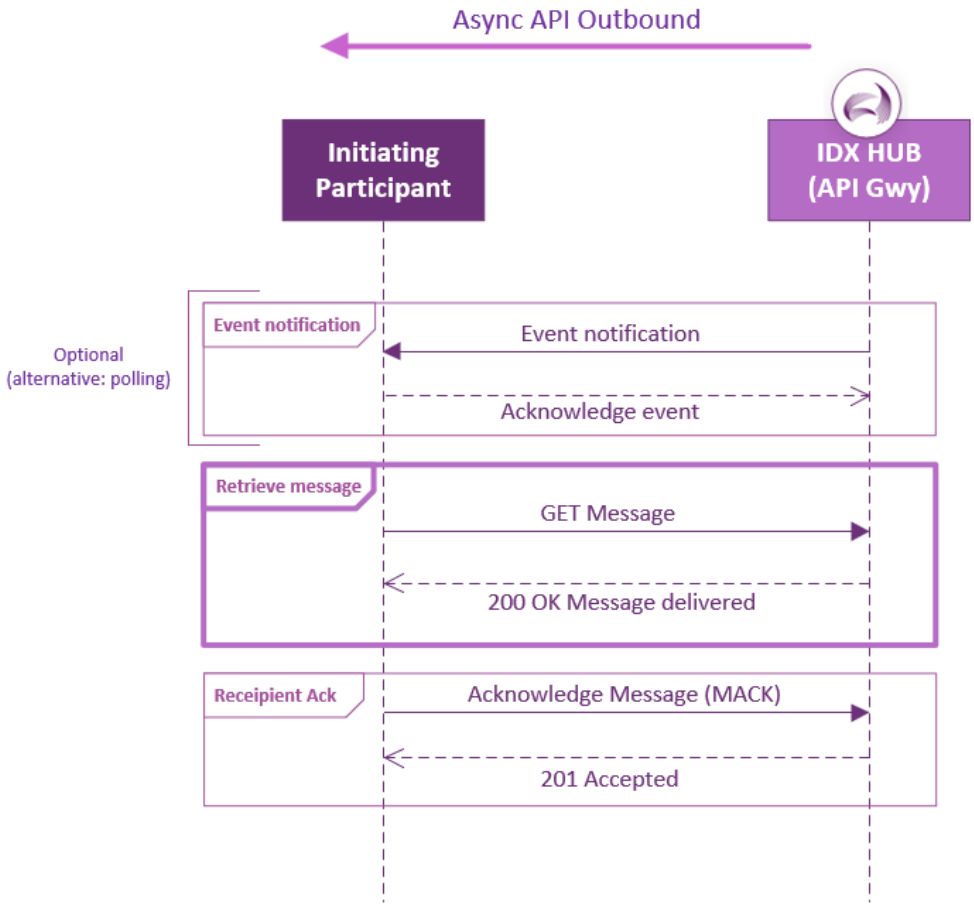
Settlement PDF Report demonstrates asynchronous outbound delivery of unstructured PDF reports over APIs. AEMO publishes Settlement PDF reports to eligible Generators and Retailers, and participants retrieve the reports when they become available. The use case validates API-based retrieval of unstructured content, event notification, acknowledgement processing, manifest and replay, message logging, and API Gateway flow-control controls

Internal testing only. Not available for participant testing in pre-production.

Feature	Description
Access	URM entity TBC. Access applies to NEM Wholesale participants authorised to receive Settlement PDF reports
Acknowledgements	Participants submit a MACK after successfully processing the retrieved PDF report
API reference	TBC. Participants retrieve reports using an API GET request
Event notification	WebSocket is not used. Participants subscribed to notifications are alerted when outbound messages are ready for retrieval by email.
Flow control	API Gateway throttling and rate limits apply
Format	PDF
Logging	Transaction Log shows outbound Settlement PDF report statuses
Message pattern	Asynchronous outbound B2M report delivery over API
Participants and routing	AEMO publishes Settlement PDF reports to Generators and Retailers
Schema versioning	N/A. Settlement PDF reports use an unstructured PDF payload
TTL and archive retention period	Values TBC

5.9.1 Process flow

1. IDX Hub publishes event notifications to subscribed participants when messages are ready for retrieval (optional – polling supported).
2. Reports are retrieved using an API (GET).
3. A message acknowledgement (MACK) is sent upon successful processing.

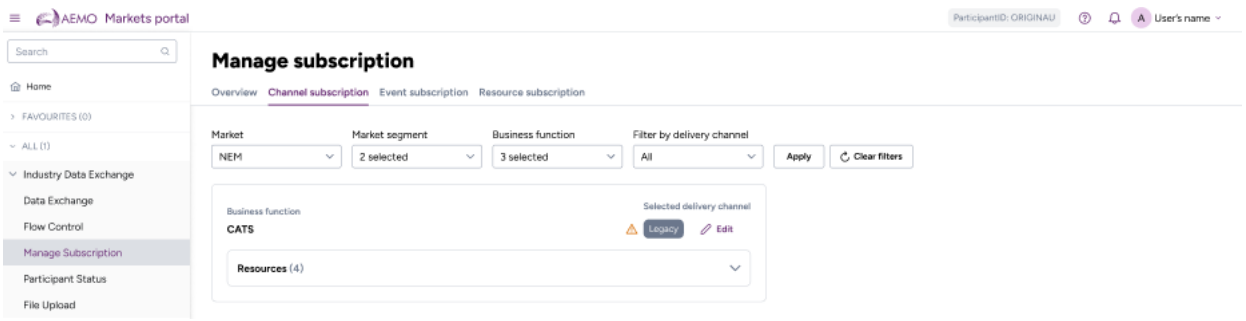

Async API Outbound
Initiating Participant
IDX HUB (API Gwy)
Optional (alternative: polling)
Event notification
Event notification
Acknowledge event
Retrieve message
GET Message
200 OK Message delivered
Receipient Ack
Acknowledge Message (MACK)
201 Accepted

6 IDX Web Applications

6.1 Manage subscriptions

The Manage Subscriptions interface brings a participant ID IDX subscription settings in one place. It supports the transition from legacy delivery methods to IDX by allowing participants to manage channels, resource subscriptions, schema preferences, and subscribe to WebSocket event notifications.

Participants use the interface to control how they receive data, messages, reports, and notifications for IDX-enabled business functions.



Manage subscription is segregated into three interfaces:

- Channel subscription: Subscribe eligible business functions, resource bundles, or resources to use IDX or legacy data exchange during the transition period.
- Resource subscription: Subscribe or unsubscribe from schema preferences. They are available only for IDX business functions or resources using managed schemas and have IDX selected in the Channel subscription interface.
- Event subscription: Subscribe or unsubscribe to near real-time event notifications for business functions using the WebSocket protocol.

During the IDX transition period, participants can choose whether eligible business functions and resources use:

- IDX
- Legacy API
- Legacy FTP

Depending on the business function configuration, channel selection is available at the business function, resource bundle, or resource level. Some business functions only allow channel selection at

the business function level. Resource-level overrides may not be available for all business functions. The interface displays the effective channel selection and how it has been derived.

More details to follow.

6.1.1 Resource subscription

Participants can manage schema version preferences during schema transition periods. File subscriptions are managed in 2 ways:

- Schema preferences at the business function and payload type level. This applies for B2B and B2M Retail and non-data model business functions.
- Schema preferences grouping related business functions and resources into a single schema release. This applies to NEM wholesale data model.

When a schema transition window is active, the interface displays the applicable change window dates and allows participants to choose whether they receive the new schema version (n), the old schema version (n-1), or both where supported.

More details to follow.

6.1.2 Event subscription

Event subscriptions using WebSockets allow participants to receive near real-time business function notifications when new data becomes available. Participants can configure WebSocket preferences at the market segment and delivery channel level and, where permitted, override those preferences for individual resources.

More details to follow.

6.2 Submit file

The Submit File interface enables Participants with the appropriate access rights to manually submit B2B and B2M transactions through the Markets Portal.

The interface is for low-volume message submissions and provides an alternative to machine-to-machine integration through IDX APIs. Supported business functions, resources, and file formats depend on the participant's permissions configured for the selected transaction type.

This release supports uploading JSON files and the submission of Basic Power Quality Data (BPQD) messages. Future releases will support uploading AEMOCSV, .zip, .gz, .PDF, and .xml files.

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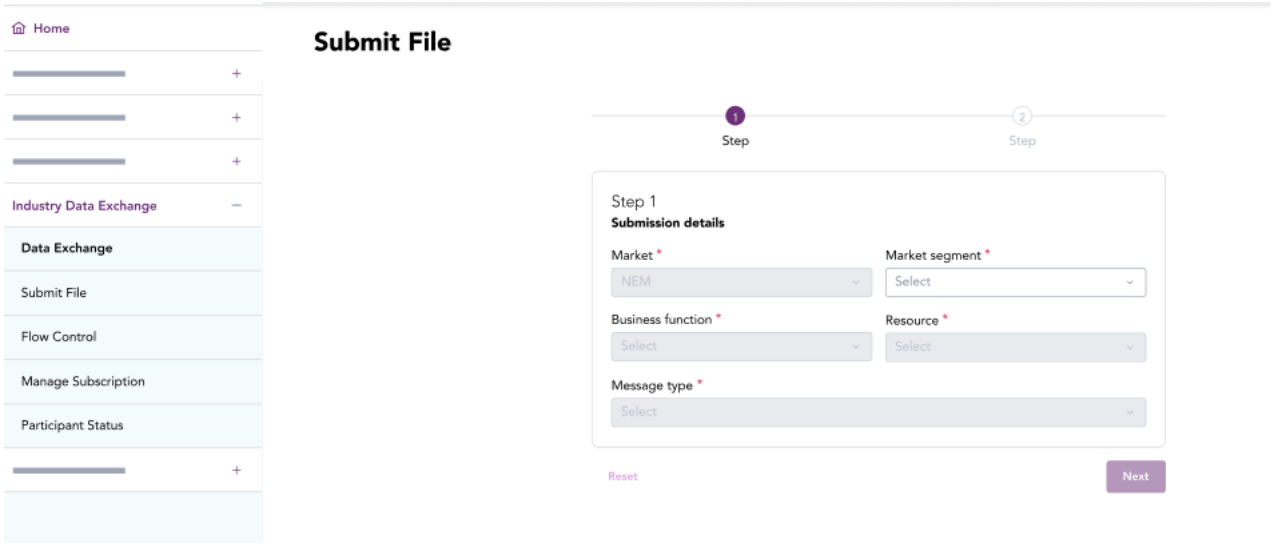
The following validations are performed when a file is uploaded:

- File size is within the limits for the business function
- Payload formatting
- File name and type

6.2.1 Submitting a file

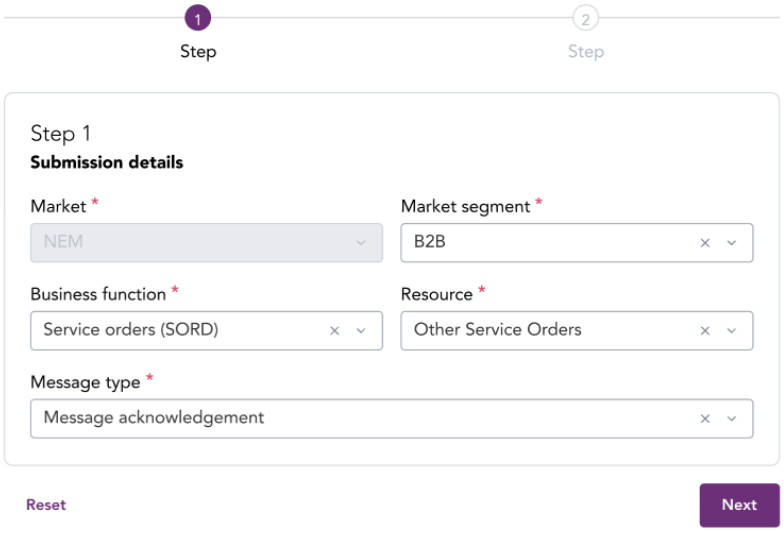
To submit a file:

1. On the main menu, click **Industry Data Exchange** > **Submit File**.
   The Submit File interface displays.

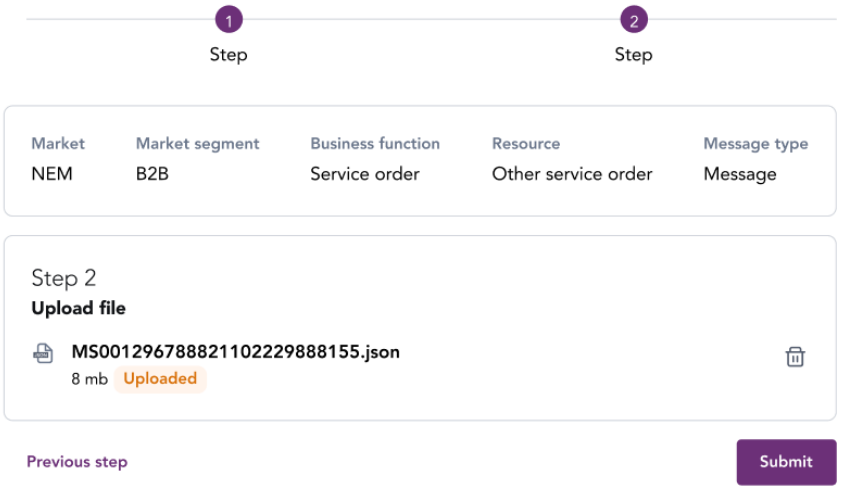


2. Select the submission details from the drop-down lists.
   The message type options depend on the business function's message exchange pattern:
   - Fire-and-forget messages, such as BPQD, use Message only.
   - Asynchronous messages, such as OWNX, use Message and Message acknowledgement.

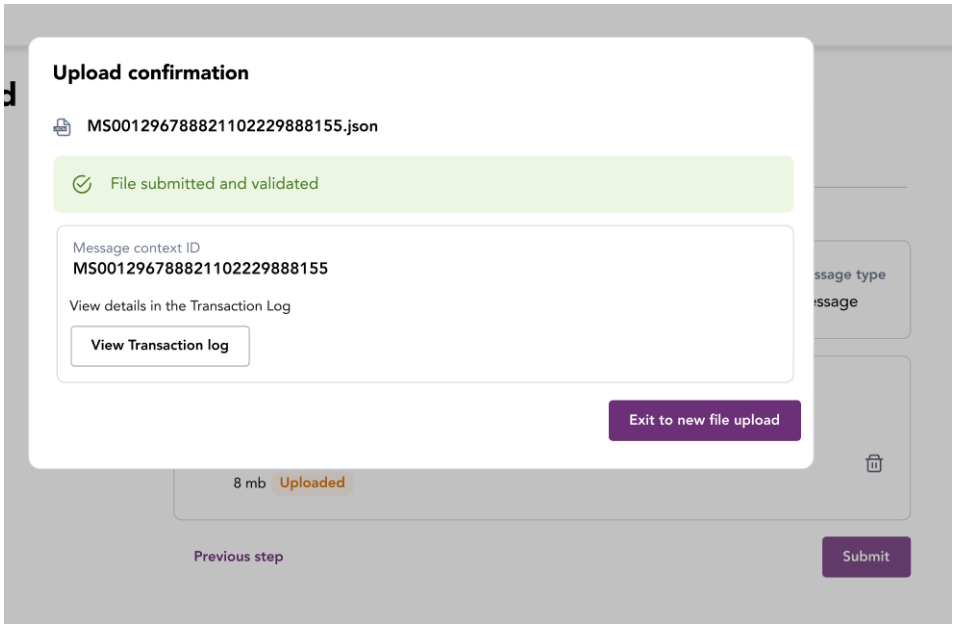
Click Next.



3. Click Upload and locate the file for uploading. Click Upload again.
4. The file will start upload. When complete, an Uploaded status is displayed. Click Submit.



5. File validation is performed. A confirmation message displays if the file uploads successfully.



An error message displays if there's a validation error or the file already exists.

6. If there's an error, click Re-submit Files to restart the submit file process.

6.3 Data Exchange

Industry Data Exchange > Data Exchange provides interfaces for accessing and managing message and transaction data. Each interface supports a different stage of the message lifecycle. This release introduces the Hub Queue interface.

Interface	Purpose	Actions
Hub Queue	Manage a Partcipant ID's messages	Search, view, download, acknowledge, reject, and delete messages.
Outbound Archive	Access historical outbound messages previously sent through IDX.	Search, view, and download archived outbound messages.
Transaction Log	Monitor transaction processing and delivery outcomes.	Search, view, and track transaction status and processing results.

6.3.1 Hub Queue

Hub Queue helps participants monitor message delivery, manage unacknowledged messages, and process business transactions exchanged through IDX.

Participants can use advanced search filters to locate messages by business function, resource, participant, message type, status, and other message attributes. The interface displays message details in a tabular format and supports pagination, CSV export, payload viewing, and message detail inspection.

Participants can perform single or bulk acknowledgements for eligible messages, manage pending messages through delete actions, and download message payloads and acknowledgement files.

More details to follow.

7 IDX Service APIs

The following table summarises the IDX Service APIs impacted by this release. For endpoints, authentication requirements, headers, parameters, schemas, limits, response codes, and examples, see the API reference links. The API references are the source of truth for implementation details.

API	Purpose	Release 2 changes	API reference
Archive	Gets an archived message or a list of archived messages in your outbound archive	- Support for use case business functions in pre-production industry testing	TBC
Business Function Information	Gets business function and business function resource metadata	- Support for use case business functions in pre-production industry testing	TBC
Event Notification	Uses WebSockets to provide near real-time notifications to participant systems when messages are available for retrieval or when flow-control conditions change	- Supports new business function events in pre-production industry testing - Event type message when a WebSocket connection is established	TBC
Flow Control	Monitors and controls message delivery across B2B business functions on IDX. It provides: - Visibility into the flow control status for subscribed business functions - Control to stop or resume outbound delivery of a business function to your queue (once per day) Insight of other Participants' flow-control status	- Support for use case business functions in pre-production industry testing	TBC
Hub Queue	Gets, retrieves, acknowledges, rejects, and deletes messages in the outbound queue	New API	TBC
Submit File	Submits B2B and B2M messages to IDX for validation and processing	New API	TBC
Transaction Log	Gets message and transaction logs associated with your Participant ID	Support for use case business functions in pre-production testing	TBC
Participant Management	Details TBC	Details TBC	TBC

8 Implementation

8.1 Transition

There is no transition required for this release.

8.2 Implications

To maintain systems in-line with AEMO's market systems, participants need to:

- Review and assess the impact on their market systems with respect to the changes implemented as part of this Release.
- Change their systems prior to the implementation of this Release.
- Schedule staff and resources to upgrade their market systems for the production implementation of this Release.

8.3 Risks

TBC

9 Terms

9.1 Glossary

You can find a full list of AEMO glossary terms in **Industry Terminology** on AEMO's website.

Abbreviation/Term	Explanation
AEST	Australian Eastern Standard Time
API	Application Programming Interface
B2B	Business-to-business
B2M	Business-to-market
Business Function	A business capability, such as OWNX, Service Orders, Bids, or Settlements. Each business function contains one or more resources representing the data or services available through IDX
EMMS	Electricity Market Management System; software, hardware, network and related processes to implement the wholesale energy market
FTP	File transfer protocol
Fan-out pattern	A message exchange pattern where IDX receives a submission and distributes it to multiple receiving participants based on configured routing rules
Large File Channel	An IDX delivery channel for exchanging large files through Managed File Transfer, with participants submitting or retrieving files using SFTP
IDX	Industry Data Exchange AEMO's platform for exchanging messages, files, reports, and notifications between AEMO and participants
MACK	Message acknowledgement
MIRN	Meter Installation Registration Number. A unique identifier assigned to a gas connection point
MFT	Managed File Transfer
MSATS	Market Settlement and Transfer Solution for retail electricity
NER	National Electricity Rules
MW	Megawatt
Release	IDX - Industry Data Exchange - May 2027

Abbreviation/Term	Explanation
Release Dates	Pre-production: Monday 1 March 2027 (TBC) Production: Sunday 2 May 2027
Resource bundle	A group of related resources using the same channel selection and transition together between legacy delivery and IDX
Schema	The defined structure, fields, data types, and validation rules for a payload
Schema change window	The period when participants can select the schema version they receive while moving to a new version
TACK	Transaction acknowledgement. A response communicating the outcome of transaction-level processing
TBC	To be confirmed
TTL	Time to Live. The configured period that a message or file remains available in an outbound queue before IDX removes it
WebSocket	A protocol maintaining a persistent connection so IDX can send near real-time event notifications to participant systems

A1. Version history