
Guide to Publishing Direct APIs

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March 2023

Provides details about the Publishing Direct
APIs

Important Notice

PURPOSE

This Guide to Publishing Direct APIs (Guide), prepared by AEMO, provides guidance for Publishing Direct under the National NER (Rules).

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DOCUMENTS MADE OBSOLETE

The release of this document changes any previous versions of Guide to Publishing Direct APIs.

FEEDBACK

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

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Introduction

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Purpose

Provides assistance to developers and users of the Bidding API.

Audience

This guide is for Registered Participants who want to use the Publishing Direct APIs or the Settlements Direct web portal.

Participant administrators wanting to know the user rights management (URM) entity to grant for participant users to access Publishing Direct APIs are a secondary audience.

Assumed Knowledge

This guide assumes you have knowledge of:

- JSON basics
- REST API standards
- Web-based technologies
- The operating system you are using
- **Connecting to AEMO's Electricity IT Systems**

Related resources

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.

You can find resources on AEMO's website.

How to use this guide

- This guide is written in plain language for easy reading.
- Where there is a discrepancy between the National Electricity Rules, and information or a term in this document, the National Electricity Rules takes precedence.
- Where there is a discrepancy between the Procedures, and information or a term in this document, the Procedures take precedence.
- **Text in this format** indicates there is a resource on AEMO's website, for details, see [References](#).
- **Text in this format** indicates a link to a related resource.
- Actions to complete in the web portal interface are **bold and dark grey**.
- Rules terms used throughout this guide are capitalised and listed in [Rules Terms on page 1](#). You can find definitions in the National Electricity Rules.
- Glossary terms are capitalised and have the meanings listed against them in the [Glossary on page 76](#).
- References to time are Australian Eastern Standard Time (AEST).

What's in this guide

[Chapter 1 Need to know on page 8](#) explains what you need to know before you start using e-Hub APIs.

[Chapter 1 About Electricity Reallocation APIs on page 1](#) explains the e-Hub APIs web application, who it is for, and how to access it, and how to use the common interface features such as selecting a unit ID, date and so on.

Chapter 1 Reallocation APIs on page 1 explains the new Reallocations APIs, validation rules, error messages, request and response structure along with examples for the APIs.

Appendix Reallocation JSON Schema on page 1 provides the JSON schema for the Reallocation APIs.

Needing Help on page 1 provides information to assist participants with IT related issues, requesting assistance from AEMO, and using the Set Participant option.

References on page 1 contains a list of resources mentioned throughout this guide.

Glossary on page 76 explains the terms and abbreviations used throughout this guide.

Chapter 1 Need to know

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Publishing Direct System

The Publishing Direct system allows Market Participants to access data, subscriptions, message delivery logs and calendars to the EMMS Wholesale Market System. AEMO uses three instances of the Publishing Direct system based on the publishing Business ID. You can access these systems using the AEMO Markets Portal.

The APIs listed in this chapter allow you to access specific details from the Publishing Direct system depending on the request parameters. Settlements Direct is an instance of the Publishing Direct system.

To access the Publishing Direct systems on the Markets Portal, navigate as follows:

- For Settlements Direct: Settlements Direct, **MMS Markets Portal > MMS > Settlements > Settlements Direct.**
- Publishing Direct for GSH - To access Publishing Direct, **MMS Markets Portal > Gas Supply Hub > Publishing Direct.**
- Market Direct for Market Info - To access Market Direct, **MMS Markets Portal > Market Info > Market Direct.**

| |
|---------------------------|
| MMS |
| Market Info |
| Settlements |
| Settlements Direct |
| Data Access |
| Subscriptions |
| Message Delivery Log |
| Calendars |
| View Prudentials |
| Reallocations |

Settlements Direct Subscriptions for Company ID

Category: NEM Statements

Type: All Types

Contact: All Contacts

| | |
|--|--|
| <input checked="" type="checkbox"/> NEM Statements | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM Correspondence | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM Summary Data | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM MMS Data | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM Market Reports | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM Third Party Data | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| Miscellaneous | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| SRA Statements | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| QldGas Statements | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| SRA Correspondence | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| NEM Alerts, Reminders and Notifications | Secure Delivery Attachment <input checked="" type="checkbox"/> |
| QldGas Correspondence | Secure Delivery Attachment <input checked="" type="checkbox"/> |

Settlements Direct Subscriptions for Company ID

The screenshot displays a web interface for managing subscriptions. At the top, there are three dropdown menus: 'Category' (selected: NEM Statements), 'Type' (open, showing options: All Types, NEM Preliminary Statement, NEM Final Statement, NEM Makeup Statement, NEM ShortFall Statement, NEM Revision Statement), and 'Contact' (selected: All Contacts). Below these are five rows of subscription types, each with a plus icon and a 'Secure Delivery Attachment' checkbox. A 'Submit' button is located at the bottom left.

In the AEMO Markets Portal, Settlements Direct is denoted in the APIs as the publishingBusinessId with the value of Settlements. The publishingCategoryId represents the Category and the publishingTypeId represents the Type. The images below show the possible values of each of these categories.

For more details on all possible combinations of the Business, Category and Type, see [Appendix: API Parameter Values](#).

Before you begin

This section defines some of the query parameters used in the APIs.

| Parameter | Description |
|----------------------|--|
| publishingBusinessId | Describes the system for which the APIs, categories and types are displayed. Possible values are NEM, NEM_SETTLEMENTS, or GSH. |
| publishingCategoryId | Each publishing business systems is divided into several categories. For details on all available categories, select the Business system and use the dropdown to find all possible categories. |

| Parameter | Description |
|-----------------------------|---|
| publishingTypeld | Each category is then subdivided into different types. For details on all available types, select the business system and category from the portal and use the dropdown menu to find all possible types. |
| publishingPeriodClassId | Describes the period for which a specific publishingTypeld is valid. Possible values are DAILY_YMD, DAILY, BILLING_WEEK, BILLING_MONTH, CAL_MONTH, QUARTER, CAL_YEAR, or FIN_YEAR. |
| publishingPeriodInstancelId | Depending on the publishingPeriodClassId, the publishingPeriodInstancelId is an identifier for the period instance. For example, for the publishingPeriodClassId of BILLING_WEEK, the publishingPeriodInstancelId is 2019WK41 or DAILY_YMD is 20191025. |
| publishingQueueId | Unique identifier that each participant is assigned which tells AEMO which file they want. |
| deliveryChannelId | The channel through which the participant contacts want to be notified. Possible options are Email, Notify by Email and SMS. |
| deliveryTime | The time period for delivery. The values are in DATE data type. |
| fileFormatId | Format of the file returned. Possible options are PDF, Text, CSV, |

Chapter 2 About Publishing Direct APIs

The following chapter lists the new and updated Publishing Direct APIs and the request and response structure for the APIs.

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Credentials, paths, schemas, validation, and examples

- For individual schemas and API paths, see [Appendix: Publishing Direct APIs JSON Schema on page 52](#).
- For details about AEMO’s API standards, SSL certificates, response codes, security, and authentication details, see [Guide to AEMO’s APIs](#).

Submission and throttling

| Payload size | Object |
|----------------------|--|
| Submission frequency | 250 messages per minute. For any messages sent beyond the limit, there is a denial of service until that one minute is complete. |
| Throttling limit | Allowed |
| Throttling limit | 1 per submission |

API e-Hub addresses

API details, including Swagger files, are available via AEMO's API Portal. For more information about e-Hub APIs, see [Guide to AEMO's e-Hub APIs](#).

The following AEMO API Gateways are available:

Table 1 API Gateway Addresses

| Environment | Internet Address | MarketNet Address |
|---------------------------|--|---|
| 5MS Staging | https://apis.5msstaging.aemo.com.au:9319 | https://apis.5msstaging.marketnet.net.au:9319 |
| 5MS Staging API portal | https://dev.preprod.aemo.com.au You need to register and sign in to access the 5MS APIs in this portal. | Unavailable until further notice |
| Pre-production | https://apis.preprod.aemo.com.au:9319 | https://apis.preprod.marketnet.net.au:9319 |
| Pre-production API portal | https://developer-portal-ppd.aemo.com.au/ You need to register and sign in to access the 5MS APIs in this portal. | Unavailable until further notice |
| Production | https://apis.prod.aemo.com.au:9319 | https://apis.prod.marketnet.net.au:9319 |
| Production API portal | https://dev.aemo.com.au | Unavailable until further notice |

API format

API URLs are in the following format:

```
https://<host>/ws/<business_
function>/<APIversion>/<resource>?querystring parameters
```

For example:

```
https://apis.prod.aemo.com.au:9319/NEMWholesale/Publishin
gDirect/v1/getContacts
```

Table 2 API Definition

| Parameter | Description |
|-------------------------|--|
| <protocol> | HTTPS |
| <host> | Names the server hosting the service or an external proxy Internet web service host: apis.prod.aemo.com.au:9319 MarketNet web service host: apis.prod.marketnet.net.au:9319 |
| <Business_function> | API Name - The AEMO system providing the services e.g. GeneratorRecall |
| <verb> <resource> | Entities of a Business Function e.g. /getContacts |
| ?querystring parameters | Query string parameters for GET method |

User rights access

The user rights access used in the Prudential APIs, and Prudential web screens use a new URM entity:

- **EMMS - Settlements - Settlements Direct - MMS_SETTLEMENTS_DIRECT**
 - MMS_SETTLEMENTS_DIRECT
 - MMS_SETTLEMENTS_DIRECT_PUBLISH
 - MMS_SETTLEMENTS_DIRECT_SUBSCRIBE

API account passwords are reset every 90 days. Not applicable None Participant specific Participant specific RREAD

The combination of Entity and Rights you must have to access the different Publishing Direct APIs are as follows:

| API Name | Authorisation Mode | Entity | Right |
|------------------------------|--------------------|----------------|----------------|
| getDeliverChannels | None | Not applicable | Not applicable |
| getCalendars | None | Not applicable | Not applicable |
| getPublishingCategories | None | Not applicable | Not applicable |
| getPublishingPeriodInstances | None | Not applicable | Not applicable |
| getPublishingTypes | None | Not applicable | Not applicable |
| getPublishingPeriodClasses | | | |

| API Name | Authorisation Mode | Entity | Right |
|-------------------------|----------------------|----------------------------------|----------------|
| | None | Not applicable | Not applicable |
| getContacts | Participant specific | MMS_SETTLEMENTS_DIRECT | READ |
| getDeliveryLogEntries | Participant specific | MMS_SETTLEMENTS_DIRECT | READ |
| getAvailableFiles | Participant specific | MMS_SETTLEMENTS_DIRECT | READ |
| downloadFiles | Participant specific | MMS_SETTLEMENTS_DIRECT | READ |
| publishFiles | Participant specific | MMS_SETTLEMENTS_DIRECT_PUBLISH | CREATE |
| getUserSubscriptions | Participant specific | MMS_SETTLEMENTS_DIRECT_SUBSCRIBE | READ |
| updateUserSubscriptions | Participant specific | MMS_SETTLEMENTS_DIRECT_SUBSCRIBE | UPDATE |

The steps to set up URM rights for API access are:

1. If required, the Participant Administrator (PA) creates a new Participant User in MSATS.
2. The PA assigns the URM entity to the Participant User.

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

Common header parameters

| Parameter | Required | Format |
|---------------------------|----------|---|
| Content-type | Yes | Text/xml or application/zip |
| Accept | Yes | Text/xml or application/zip |
| Authorization | Yes | Two-way SSL and basic auth - participant user URM username and password |
| X-initiatingParticipantID | Yes | Participant ID |
| X-market | Yes | NEM |

Common response

| Error Code | Description |
|------------|---|
| 200 | OK |
| 400 | Mandatory HTTP header <Header_Name> missing. No response payload. |
| 401 | Unauthorised. No response payload. |

| Error Code | Description |
|------------|---|
| 404 | Resources for the endpoint URI not found. Endpoint URI: {requested URI path suffix}. No response payload. |
| 405 | Method not allowed. Input request HTTP method {requested verb} is not allowed for this resource. No response payload. |
| 422 | Unprocessable entity |
| 429 | Too many requests. Number of inbound requests exceed the throttling limits; try again later. No response payload. |
| 500 | Internal Server Error. Exception from backend system. No response payload. |

Chapter 2 Publishing Direct APIs

This chapter describes the method, URL, request and response content body, and request and response examples for the Publishing Direct APIs.

getContacts

The getContacts API retrieves a list of all contacts for a Registered Participant.

| | |
|-----------------|--|
| API | getContacts |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getContacts |
| Authorisation | Participant specific |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | NA |

| | |
|------------------|--|
| Success response | <p>Content Body:</p> <pre> { "data": { "contacts": [{ "contactId": [string], "contactSource": [string], "isActive": [boolean], "sourceUpdateTime": [datetime], "participantId": [string], "mobileNumber": [string], "emailAddress": [string], "title": [string], "firstName": [string], "lastName": [string] }] } } </pre> |
| Notes | |
| Validation rules | N/A |

Example request

```

GET /NEMWholesale/PublishingDirect/v1/getContacts
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>

```

Example response

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "6e000fde-ddf0-0000-a0d0-b0bd0000d00",
  "data": {
    "contacts": [
      {
        "contactId": "1000",
        "contactSource": "MSATSCONTACT",
        "isActive": "Y",
        "sourceUpdateTime": "2016-10-21T11:29:23",
        "participantId": "PARTICIPANTID1",
        "mobileNumber": "MOBILE_NUMBER",
        "emailAddress": "EMAIL_ADDRESS1",
        "title": "TITLE",
        "firstName": "FIRST_NAME",
        "lastName": "LAST_NAME"
      },
      {
        "contactId": "500",
        "contactSource": "MSATSCONTACT",
        "isActive": "Y",
        "sourceUpdateTime": "2011-04-06T09:56:46",
        "participantId": "PARTICIPANTID2",
        "mobileNumber": null,
        "emailAddress": "EMAIL_ADDRESS2",
        "title": ".",
        "firstName": "FIRST_NAME",
        "lastName": "LAST_NAME"
      }
    ]
  },
  "errors": []
}

```

getCalendars

The getCalendars API retrieves the list of calendars for the business process name which is Settlements Direct in this case.

| | |
|------------------|--|
| API | getCalendars |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getCalendars |
| Authorisation | None |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId |
| Success response | <p>Content Body:</p> <pre> { "data": { "calendars": [{ "url": [string], "description": [string] }] } } </pre> |
| Notes | |
| Validation rules | |

Example request

```
GET
/NEMWholesale/PublishingDirect/v1/getCalendars?publishingBusinessId=NE
M_SETTLEMENTS
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "4f0000a-0000-0c2d-0c70-1efcca0000a",
  "data": {
    "calendars": [
      {
        "url": "https://www.aemo.com.au/energy-
systems/electricity/national- electricity- market- nem/market-
operations/settlements- and- payments/prudentials- and-
payments/settlement-calendars",
        "description": "Settlement Calendars"
      },
      {
        "url": "https://www.aemo.com.au/energy-
systems/electricity/national- electricity- market- nem/market-
operations/settlements- and- payments/prudentials- and-
payments/settlement-calendars/intervention-settlement-timetables",
        "description": "Intervention Settlements Timetable"
      }
    ]
  },
  "errors": []
}
```

getDeliveryChannels

The getDeliveryChannels API retrieves a list of supported notification channels.

| | |
|------------------|--|
| API | getDeliveryChannels |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getDeliveryChannels |
| Authorisation | None |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | NA |
| Success response | <p>Content Body:</p> <pre> { "data": { "channelList": [{ "deliveryChannelId": [string], "description": [string], "displayPriority": [integer] }] } } </pre> |
| Notes | |
| Validation rules | |

Example request

```
GET /NEMWholesale/PublishingDirect/v1/getDeliveryChannels
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "800c6000-70b0-4df0-b0fa-a0dd40000c0",
  "data": {
    "channelList": [
      {
        "channelId": "EMAIL",
        "description": "E-mail",
        "displayPriority": 1
      },
      {
        "channelId": "EMAIL_NOTIFICATION",
        "description": "Notify by E-mail",
        "displayPriority": 3
      }
    ]
  },
  "errors": []
}
```

getPublishingCategories

The getPublishingCategories API retrieves a list of supported publishing categories.

| | |
|------------------|--|
| API | getPublishingCategories |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getPublishingCategories |
| Authorisation | None |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId |
| Success response | <p>Content Body</p> <pre> { "data": { "categories": [{ "publishingCategoryId": [string], "description": [string], "displayPriority": [integer], }] }, } </pre> |
| Notes | |
| Validation rules | publishingBusinessId must be a valid publishing business identifier. |

Example request

```
GET
/NEMWholesale/PublishingDirect/v1/getPublishingCategories?publishingBusinessId=NEM_SETTLEMENTS
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "579b7a6a-d205-4e9a-8275-ef9ca10f173d",
  "data": {
    "categories": [
      {
        "publishingCategoryId": "(All)",
        "description": "(All categories)",
        "displayPriority": -1,
      },
      {
        "publishingCategoryId": "NEM_STATEMENTS",
        "description": "NEM Statements",
        "displayPriority": 1
      }
    ]
  },
  "errors": []
}
```

getDeliveryLogEntries

The getDeliveryLogEntries API retrieves a log of delivered files and notifications.

| | |
|-----------------|--|
| API | getDeliveryLogEntries |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getDeliveryLogEntries |
| Authorisation | Participant specific |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId (Mandatory) • publishingCategoryId (Optional) • publishingTypeId (Optional) • publishingPeriodClassId (Semi-mandatory) • publishingPeriodInstanceIdFrom (Semi-mandatory) • publishingPeriodInstanceIdTo (Semi-mandatory) • contactId (Optional) • deliveryChannelId (Optional) • deliveryTimeFrom (Semi-mandatory) • deliveryTimeTo (Semi-mandatory) <p>The semi-mandatory indicate that even if you do not select publishingCategoryId and publishingTypeId , either the deliveryTimeFrom and deliveryTimeTo or the publishingPeriodInstanceIdFrom and publishingPeriodInstanceIdTo fields should be included.</p> |

Success
response

Content Body

```
{
  "data": {
    "logEntries":
    [
      {
        "publishingCategoryId": [string],
        "publishingTypeId": [string],
        "publishingPeriodClassId": [string],
        "publishingPeriodInstanceId": [string],
        "fileName": [string],
        "deliveryChannelId": [string],
        "fileFormatId": [string],
        "contactId": [string],
        "documentEncryptionKey": [string],
        "eventQueueId": [string],
        "deliveryTime": [datetime],
        "headerText": [string],
        "bodyText": [string]
      }
    ]
  }
}
```

Notes

Validation rules

- publishingBusinessId must be a query parameter and must be a valid publishing business identifier
- publishingCategoryId must be a valid publishing category for the provided publishing business identifier
- publishingTypeId must be a valid publishing type for the provided publishing business identifier
- publishingPeriodClassId must be a valid publishing period class
- deliveryChannelId must be a valid delivery channel identifier
- If deliveryTimeFrom is specified, then deliveryTimeTo must also be specified, and vice versa
- If publishingPeriodInstanceIdFrom is specified, then publishingPeriodInstanceIdTo must also be specified, and vice versa
- Either deliveryTimeFrom/deliveryTimeTo, or publishingPeriodInstanceIdFrom/publishingPeriodInstanceIdTo must be specified
- If deliveryTimeFrom/deliveryTimeTo are specified, the maximum allowable timespan between the two values is 1 year
- If publishingPeriodInstanceIdFrom/publishingPeriodInstanceIdTo are specified, the maximum allowable timespan between the two values is 1 year, or where the period instances do not align to day boundaries, as close to 1 year as can be reasonably determined, for example, 2018Wk44 to 2019Wk44 is allowed, but 2018Wk44 to 2018Wk55 is not.

Example request

```
GET
/NEMWholesale/PublishingDirect/v1/getDeliveryLogEntries?publishingBusinessId=NEM_SETTLEMENTS
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSpOZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
```

Example response

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "c1fdd064-9803-4251-ae45-edfec20eb0e5",
  "data": {
    "logEntries": [
      {
        "publishingCategoryId": "NEM_SUMMARY_DATA",
        "publishingTypeId": "NEM_SUMM_DIRECTIONS_P",
        "publishingperiodInstanceId": "2010WK34",
        "publishingPeriodClassId": "BILLING_WEEK",
        "fileName" : "PUBLIC_BILLING_DIRECT_FINAL_RECON_2010Week34PRELIMINARY_20100830100000.zip"
        "deliveryChannelId": "EMAIL",
        "fileFormatId": "CSV",
        "contactId": "500",
        "documentEncryptionKey": null,
        "publishingQueueId": "0000000312184000",
        "deliveryTIME": "2010-08-30T11:27:48",
        "headerText" : "AEMO Settlements Direct: NEM Direction Correspondence 2010WK34",
        "bodyText": null
      }
    ]
  },
  "errors": []
}

```

getAvailableFiles

The getAvailableFiles retrieves a list of files available for publishing.

| | |
|--------|--|
| API | getAvailableFiles |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getAvailableFiles |

| | |
|-----------------|--|
| Authorisation | Participant specific |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none">• Authorization: Basic• Content-Encoding: Should be one of [gzip, deflate, compress]• Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none">• publishingBusinessId (Mandatory)• publishingCategoryId (Optional)• publishingTypeId (Optional)• publishingPeriodClassId (Optional)• publishingPeriodInstanceIdFrom (Optional)• publishingPeriodInstanceIdTo (Optional)• deliveryTimeFrom (Optional)• deliveryTimeTo (Optional) |

| | |
|------------------|---|
| Success response | <p>Content Body</p> <pre> { "data": { "files": [{ "publishingCategoryId": [string], "publishingTypeId": [string], "publishingPeriodClassId": [string], "publishingPeriodInstanceId": [string], "publishingQueueId": [string], "fileName": [string], "fileFormatId": [string], "documentEncryptionKey": [string], "deliveryTime": [datetime], "iLinkDescription": [string], "iLinkAddress": [string] }] } } </pre> |
| Notes | |
| Validation rules | |

Example request

```

GET
/NEMWholesale/PublishingDirect/v1/getAvailableFiles?publishingBusiness
Id=NEM_SETTLEMENTS
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>

```

Example response

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "c1fdd064-9803-4251-ae45-edfec20eb0e5",
  "data": {
    "files": [
      {
        "publishingCategoryId": "NEM_SUMMARY_DATA",
        "publishingTypeId": "NEM_SUMM_DIRECTIONS_P",
        "publishingperiodInstanceId": "2019WK34",
        "publishingPeriodClassId": "BILLING_WEEK",
        "publishingQueueId": "000000312184277",
        "fileName" : "PUBLIC_ BILLING_ DIRECT_ FINAL_ RECON_
2019Week34PRELIM_20190830112624.zip"
        "fileFormatId": "CSV",
        "documentEncryptionKey": null,
        "deliveryTime": "2019-08-30T11:27:48",
        "iLinkDescription": "Settlement Statements and Invoices in PDF
format",
        "iLinkAddress" : "http://aemo.com.au/- /media/Files/PDF/0500-
0009-pdf.pdf"
      }
    ]
  },
  "errors": []
}

```

getPublishingPeriodClasses

The getPublishingPeriodClasses API retrieves a list of supported publishing period classes.

| | |
|--------|---|
| API | getPublishingPeriodClasses |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getPublishingPeriodClasses |

| | |
|------------------|--|
| Authorisation | None |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId • publishingTypeId |
| Success response | <p>Content Body</p> <pre> { "data": { "periodClasses": [{ "publishingPeriodClassId": [string] }] } } </pre> |
| Notes | |
| Validation rules | <ul style="list-style-type: none"> • publishingBusinessId must be a valid publishing business identifier • publishingTypeId must be a valid publishing type |

Example request

```

GET
/NEMWholesale/PublishingDirect/v1/getPublishingPeriodClass?publishingB
usinessId=NEM_SETTLEMENTS&publishingTypeId=NEM_REPORT_REGION_SUMMARY
Content-Type: application/json
Accept: application/json

```

```

Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>

```

Example response

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "c1fdd000-0000-0000-ae00-edfec00eb0e0",
  "data": {
    "periodClasses": [
      {
        "publishingPeriodClassId": "BILLING_WEEK",
      }
    ]
  },
  "errors": []
}

```

getPublishingPeriodInstances

The getPublishingPeriodInstances API retrieves a list of period instances for the supplied publishing type and period class.

| | |
|---------------|---|
| API | getPublishingPeriodInstances |
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getPublishingPeriodInstances |
| Authorisation | None |

| | |
|------------------|--|
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId • publishingTypeId • publishingPeriodClassId |
| Success response | <p>Content Body</p> <pre> { "data": { "periodInstances": [{ "publishingPeriodInstanceId": [string] }] } } </pre> |
| Notes | |
| Validation rules | <ul style="list-style-type: none"> • publishingBusinessId must be a valid publishing business identifier • publishingTypeId must be a valid publishing type • publishingPeriodClassId must be a valid publishing period class |

Example request

```

GET
/NEMWholesale/PublishingDirect/v1/getPublishingPeriodInstances?publishingBusinessId=NEM_SETTLEMENTS&publishingTypeId=NEM_REPORT_REGION_SUMMARY &publishingPeriodClassId=BILLING_WEEK

```

```

Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSpOZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>

```

Example response

```

HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "072f0ef5-57f7-426e-ad78-a0661f88e4ad",
  "data": {
    "periodInstances": [
      {
        "publishingPeriodInstanceId": "2009WK47"
      },
      {
        "publishingPeriodInstanceId": "2009WK48"
      },
      {
        "publishingPeriodInstanceId": "2009WK49"
      }
    ]
  },
  "errors": [],
  "warnings": []
}

```

getUserSubscriptions

The getUserSubscriptions API retrieves a list of current user subscriptions.

API

getUserSubscriptions

| | |
|-----------------|---|
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getUserSubscriptions |
| Authorisation | Participant specific |
| Header | Standard request header attributes to include: <ul style="list-style-type: none">• Authorization: Basic• Content-Encoding: Should be one of [gzip, deflate, compress]• Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | Query Parameters: <ul style="list-style-type: none">• publishingBusinessId |

| | |
|------------------|--|
| Success response | <p>Content Body</p> <pre> { "data": { "subscriptions": [{ "publishingCategoryId": [string], "publishingTypeId": [string], "isPlainTextRequested": [boolean], "contacts": [{ "contactId": "string", "deliveryChannels": [{ "deliveryChannelId": [string], "isSubscribed": [boolean] }] }] }] } } </pre> |
| Notes | |
| Validation rules | publishingBusinessId must be a valid publishing business identifier |

Example request

```

GET
/NEMWholesale/PublishingDirect/v1/getUserSubscriptions?publishingBusinessId=NEM_SETTLEMENTS
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==

```

X-market: NEM
 X-initiatingParticipantID: <PARTICIPANTID>

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "1000d00-0000-000d-00f0-0aa0f00c0cf",
  "data": {
    "subscriptions": [
      {
        "publishingCategoryId": "NEM_SUMMARY_DATA",
        "publishingTypeId": "NEM_SUMM_DIRECTIONS_P",
        "isPlainTextRequested": "N",
        "contacts": [
          {
            "contactId": "500",
            "deliveryChannels": [
              {
                "channelId": "EMAIL",
                "channelDescription": "E-mail",
                "isSelected": false,
                "isReadOnly": false
              }
            ]
          }
        ]
      }
    ],
    "errors": []
  }
}
```

getPublishingTypes

The getPublishingTypes API retrieves a list of supported publishing types.

API

getPublishingTypes

| | |
|------------------|--|
| Method | GET |
| URL | /NEMWholesale/PublishingDirect/getPublishingTypes |
| Authorisation | None |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Query Parameters:</p> <ul style="list-style-type: none"> • publishingBusinessId • publishingCategoryId |
| Success response | <p>Content Body</p> <pre> { "data": { "publishingTypes": [{ "publishingTypeId": [string], "displayPriority": [integer], "description": [string], }] } } </pre> |
| Notes | |

Validation rules

- publishingBusinessId must be a valid publishing business identifier
- publishingTypeId must be a valid publishing type
- publishingPeriodClassId must be a valid publishing period class

Example request

```
GET
/NEMWholesale/PublishingDirect/v1/getPublishingTypes?publishingBusinessId=NEM_SETTLEMENTS&publishingCategoryId=NEM_SUMMARY_DATA
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSpOZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "30e00e00-00f8-009d-b000-fe0000e00000",
  "data": {
    "publishingTypes": [
      {
        "publishingTypeId": "NEM_SUMM_DIRECTIONS_P",
        "displayPriority": 20,
        "description": "NEM Directions Recovery Reconciliation"
      }
    ]
  },
  "errors": []
}
```

downloadFiles

The downloadFiles API directly downloads a set of requested files.

| | |
|------------------|--|
| API | downloadFiles |
| Method | POST |
| URL | /NEMWholesale/PublishingDirect/downloadFiles |
| Authorisation | Participant specific |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Content Body</p> <pre> { "files": [[string], [string], [string]] } </pre> |
| Success response | A zip file containing requested files |
| Notes | <p>'files' is an array of strings containing a set of publishingQueueId values retrieved through the getAvailableFiles API.</p> <p>A maximum of 10 files can be requested in a single API call.</p> |

Validation rules

The publishing queue ID's in the 'files' array must be:

- Valid publishing event queue ID's that have not been archived
- Associated with the requesting participant, either directly or through a data sharing arrangement

A validation failure for any element in the array causes the request as a whole to fail.

Example request

```
POST /NEMWholesale/PublishingDirect/v1/downloadFiles
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
{
  "files":
  [
    "0000000312184277",
    "0000000312184278"
  ]
  "optionalEncryptionKey": "test"
}
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/Octet-stream
Content-Length: nnn
Content-Encoding: gzip
{}
```

Following the success response, a zip of the downloaded files is available in the participant file share.

publishFiles

The publishFiles API publishes a set of requested files using the chosen publication method.

| | |
|-----------------|--|
| API | publishFiles |
| Method | POST |
| URL | /NEMWholesale/PublishingDirect/publishFiles |
| Authorisation | Participant specific |
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none"> • Authorization: Basic • Content-Encoding: Should be one of [gzip, deflate, compress] • Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Content Body</p> <pre> { publicationMethod: [string], "files": [[string], [string], [string]] } </pre> |

| | |
|------------------|---|
| Success response | <p>Content Body</p> <pre> { "data": { } } </pre> |
| Notes | <p>publicationMethod can be one of the following values:</p> <ul style="list-style-type: none"> • EMAIL_TO_ME: Send the files to the email address associated with the logged-in user • RESEND_PUBLISHING: Re-send the files through the Settlements Direct delivery system • RESEND_FILESERVER: Re-post the files to the participant file share <p>'files' is an array of strings containing a set of publishingQueueId values retrieved through the getAvailableFiles API.</p> <p>A maximum of 10 files can be requested in a single API call.</p> |
| Validation rules | <p>The publishing queue ID's in the 'files' array must be:</p> <ul style="list-style-type: none"> • Valid publishing event queue ID's that have not been archived • Associated with the requesting participant, either directly or through a data sharing arrangement <p>A validation failure for any element in the array causes the request as a whole to fail.</p> |

Example request

```

POST /NEMWholesale/PublishingDirect/v1/publishFiles
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSp0ZK1tY28wMw==
X-market: NEM

```

```
X-initiatingParticipantID: <PARTICIPANTID>
{
  "publicationMethod": "RESEND_FILESERVER"
  "files":
  [
    "0000000312184277",
    "0000000312184278"
  ]
}
```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "20110c6b-a048-4501-9016-a030b4bb1f59",
  "data": {},
  "errors": [
  ],
  "warnings": []
}
```

Following the success response, a zip of the published files is available in the participant file share.

updateUserSubscriptions

The updateUserSubscriptions API updates the subscriptions for one or more users.

| | |
|---------------|--|
| API | publishFiles |
| Method | POST |
| URL | /NEMWholesale/PublishingDirect/updateUserSubscriptions |
| Authorisation | Participant specific |

| | |
|------------------|--|
| Header | <p>Standard request header attributes to include:</p> <ul style="list-style-type: none">• Authorization: Basic• Content-Encoding: Should be one of [gzip, deflate, compress]• Accept-Encoding: Should be one or more of [gzip, deflate, compress] |
| Request Content | <p>Content Body</p> <pre>{ "subscriptions": [{ "publishingCategoryId": [string], "publishingTypeId": [string], "isPlainTextRequested": [boolean], "contacts": [{ "contactId": "string", "deliveryChannels": [{ "deliveryChannelId": [string], "isSubscribed": [boolean] }] }] }] }</pre> |
| Success response | <p>Content Body</p> <pre>{ "data": { } }</pre> |

| | |
|------------------|---|
| Notes | |
| Validation rules | <ul style="list-style-type: none"> • Each deliveryChannelId specified must be a valid delivery channel • Each contactId specified must be a valid contact directly associated with the requesting participant |

Example request

```

POST /NEMwholesale/PublishingDirect/v1/updateUserSubscriptions
Content-Type: application/json
Accept: application/json
Accept-Encoding: gzip
Content-Length: nnn
Content-Encoding: gzip
Authorisation: Basic dGVzdG1hbnVhbSpOZK1tY28wMw==
X-market: NEM
X-initiatingParticipantID: <PARTICIPANTID>
{
  "transactionId": "10915d48-5700-430d-95f8-7aa49f56c3cf",
  "data": {
    "subscriptions": [
      {
        "publishingCategoryId": "NEM_SUMMARY_DATA",
        "publishingTypeId": "NEM_SUMM_DIRECTIONS_P",
        "isPlainTextRequested": "N",
        "contacts": [
          {
            "contactId": "500",
            "deliveryChannels": [
              {
                "channelId": "EMAIL",
                "isSubscribed": false
              }
            ]
          }
        ]
      }
    ],
    "errors": []
  }
}

```

Example response

```
HTTP/1.1 200 OK
Content-Type: application/json
Content-Length: nnn
Content-Encoding: gzip
{
  "transactionId": "76f4db27-0de3-4d5b-9e4f-81059190614c",
  "data": {
    "successful": true or false
  },
  "errors": []
}
```

Appendix: Publishing Direct APIs JSON Schema

This section provides the JSON schema for the Publishing Direct APIs.

downloadFiles schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema",
  "type": "object",
  "description": "Schema of download file request",
  "additionalProperties": false,
  "properties": {
    "files": {
      "type": "array",
      "items": [
        {
          "type": "string",
          "minLength": 1,
          "maxLength": 30
        }
      ]
    },
    "optionalEncryptionKey": {
      "$id": "#/properties/optionalEncryptionKey",
      "type": "string",
      "description": "Optional Encryption Key of the request of the request"
    }
  },
  "required": [
    "files"
  ]
}
```

publishFiles schema

```
{
  "$schema": "http://json-schema.org/draft-07/schema",
  "type": "object",
```

```

"description": "Schema of publish file request",
"additionalProperties": false,
"properties": {
  "files": {
    "type": "array",
    "items": [
      {
        "type": "string",
        "minLength": 1,
        "maxLength": 30
      }
    ]
  },
  "optionalEncryptionKey": {
    "$id": "#/properties/optionalEncryptionKey",
    "type": "string",
    "description": "Optional Encryption Key of the request of the
request"
  },
  "publicationMethod": {
    "type": "string",
    "enum": [ "EMAIL_TO_ME" , "RESEND_PUBLISHING" , "RESEND_
FILESERVER" ]
  }
},
"required": [
  "files",
  "publicationMethod"
]
}

```

updateUserSubscription schema

```

{
  "$schema": "http://json-schema.org/draft-07/schema",
  "type": "object",
  "title": "Schema validation for update subscriptions.",
  "description": "Schema validation for update subscriptions.",
  "additionalProperties": false,
  "required": [
    "subscriptions"
  ],
  "properties": {
    "subscriptions": {
      "$id": "#/properties/subscriptions",
      "type": "array",
      "title": "The Subscriptions Schema",
      "description": "Subscription List",

```

```

    "additionalItems": false,
    "items": {
      "$id": "#/properties/subscriptions/items",
      "type": "object",
      "title": "The Items Schema",
      "description": "An explanation about the purpose of this
instance.",
      "additionalProperties": false,
      "required": [
        "publishingCategoryId",
        "publishingTypeId",
        "isPlainTextRequested",
        "contacts"
      ],
      "properties": {
        "publishingCategoryId": {
          "$id"
          :
          "#/properties/subscriptions/items/properties/publishingCategoryId",
          "type": "string",
          "title": "The Publishingcategoryid Schema",
          "description": "The publishing Category Id",
          "minLength": 1,
          "maxLength": 30
        },
        "publishingTypeId": {
          "$id"
          :
          "#/properties/subscriptions/items/properties/publishingTypeId",
          "type": "string",
          "title": "The Publishingtypeid Schema",
          "description": "The Publishingtypeid Schema",
          "minLength": 1,
          "maxLength": 30
        },
        "isPlainTextRequested": {
          "$id"
          :
          "#/properties/subscriptions/items/properties/isPlainTextRequested",
          "type": "boolean",
          "title": "The Isplaintextrequested Schema",
          "description": "The Isplaintextrequested Schema",
          "minLength": 1,
          "maxLength": 30
        },
        "contacts": {
          "$id"
          :
          "#/properties/subscriptions/items/properties/contacts",
          "type": "array",
          "title": "The Contacts Schema",
          "description": "The Contacts Schema",
          "additionalItems": false,
          "items": {
            "$id"
            :
            "#/properties/subscriptions/items/properties/contacts/items",

```

```

    "type": "object",
    "title": "The Items Schema",
    "description": "An explanation about the purpose of this
instance.",
    "additionalProperties": false,
    "required": [
      "contactId",
      "deliveryChannels"
    ],
    "properties": {
      "contactId": {
        "$id"
        :
        "#/properties/subscriptions/items/properties/contacts/items/properties
/contactId",
        "type": "string",
        "title": "The Contactid Schema",
        "description": "The Contactid Schema",
        "minLength": 1,
        "maxLength": 30
      },
      "deliveryChannels": {
        "$id"
        :
        "#/properties/subscriptions/items/properties/contacts/items/properties
/deliveryChannels",
        "type": "array",
        "title": "The Deliverychannels Schema",
        "description": "The Deliverychannels Schema",
        "additionalItems": false,
        "items": {
          "$id"
          :
          "#/properties/subscriptions/items/properties/contacts/items/properties
/deliveryChannels/items",
          "type": "object",
          "title": "The Items Schema",
          "description": "An explanation about the purpose
of this instance.",
          "additionalProperties": false,
          "required": [
            "deliveryChannelId",
            "isSubscribed"
          ],
          "properties": {
            "deliveryChannelId": {
              "$id"
              :
              "#/properties/subscriptions/items/properties/contacts/items/properties
/deliveryChannels/items/properties/deliveryChannelId",
              "type": "string",
              "title": "The Deliverychannelid Schema",
              "description": "The Deliverychannelid Schema",
              "minLength": 1,
              "maxLength": 30
            },
            "isSubscribed": {

```


Appendix: API Parameter Values

This appendix lists all possible Category and Type IDs for the different publishing Business IDs with their description and display priorities.

Publishing Businesses

| PUBLISHINGBUSINESSID | Description |
|----------------------|-----------------------------|
| NEM_SETTLEMENTS | NEM Settlements |
| NEM | National Electricity Market |
| GSH | Gas Supply Hub |

Publishing Categories

| PUBLISHINGCATEGORYID | Description |
|-------------------------------|-------------------------------|
| PUBLISHINGBUSINESSID: GSH | |
| GSH_SETTLEMENTS_AND_BILLING | GSH Settlements and Billing |
| GSH_REGISTRATION_AND_CONTACTS | GSH Registration and Contacts |
| GSH_PRUDENTIAL_MANAGEMENT | GSH Prudential Management |
| GSH_TRADING | GSH Trading |

| PUBLISHINGCATEGORYID | Description |
|---------------------------------------|----------------------------|
| GSH_CORRESPONDENCE | GSH Correspondence |
| GSH_DAY_AHEAD_AUCTION | GSH Day Ahead Auction |
| GSH_CAPACITY_TRADING | GSH Capacity Trading |
| PUBLISHINGBUSINESSID: NEM | |
| NETWORK_OPERATIONS | Network Operations |
| MARKET_NEM_ALERTS | Notifications and warnings |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | |
| NEM_STATEMENTS | NEM Statements |
| NEM_CORRESPONDENCE | NEM Correspondence |
| NEM_SUMMARY_DATA | NEM Summary Data |
| NEM_MMS_DATA | NEM MMS Data |
| NEM_MARKET_REPORTS | NEM Market Reports |
| NEM_THIRD_PARTY_DATA | NEM Third Party Data |
| MISCELLANEOUS | Miscellaneous |
| SRA_STATEMENTS | SRA Statements |
| QLDGAS_STATEMENTS | QldGas Statements |
| SRA_CORRESPONDENCE | SRA Correspondence |

| PUBLISHINGCATEGORYID | Description |
|-----------------------|---|
| NEM_EXT_ALERTS | NEM Alerts, Reminders and Notifications |
| QLDGAS_CORRESPONDENCE | QldGas Correspondence |
| STTM_STATEMENTS | STTM Statements |
| VICGAS_STATEMENTS | VicGas Statements |
| NEM_ALERTS | NEM Alerts |
| STTM_CORRESPONDENCE | STTM Correspondence |
| VICGAS_CORRESPONDENCE | VicGas Correspondence |
| AEMC_MARKET_DATA | AEMC Market Data Reports |
| ASX_REPORTS | ASX Reports |
| PRICE_REPORTS | Price Reports |

Publishing Types

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|------------------|---------------|
| PUBLISHINGBUSINESSID: GSH PUBLISHINGCATEGORYID: GSH_CAPACITY_TRADING | | |
| GSH_CONTRACT_DETAILS_C | Contract Details | DAILY_YMD |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|--|---------------|
| GSH_RCPT_DELIV_POINT_PREFS_PT | CTP Receipt and Delivery Point Preferences | DAILY_YMD |
| GSH_CONTRACT_REFERENCES_PT | Contract References | DAILY_YMD |
| GSH_SHIPPER_CAPACITY_TRANSFER_NOTIFICATION_GROUP_C | Shipper Capacity Transfer Notification Group | DAILY_YMD |
| GSH_CONTRACT_DETAILS_TRK_C | Contract Details | DAILY_YMD |
| GSH_SHIPPER_CAPACITY_TRANSFER_NOTIFICATION_C | Shipper Capacity Transfer Notification | DAILY_YMD |
| GSH_ZONE_CURTAILMENT_INFORMATION_P | Zone Curtailment Information | DAILY_YMD |
| GSH_CONTRACT_REFERENCES_C | Contract References | DAILY_YMD |
| GSH_CAPACITY_TRANSFER_NOTICE_C | Capacity Transfer Notice | DAILY_YMD |
| GSH_RCPT_DELIV_POINT_PREFS_C | CTP Receipt and Delivery Point Preferences | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH PUBLISHINGCATEGORYID: GSH_CORRESPONDENCE | | |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|--------------------------------------|---------------|
| GSH_MARKET_NOTICE_P | GSH Market Event Notice | CAL_MONTH |
| GSH_CAPACITY_XFR_AUCTION_NT_P | Capacity Transfer and Auction Notice | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH | | |
| PUBLISHINGCATEGORYID: GSH_DAY_AHEAD_AUCTION | | |
| GSH_AUCTION_QUANTITIES_P | Auction Quantities | DAILY_YMD |
| GSH_AUCTION_PRICE_VOLUME_P | Auction Product Price and Volume | DAILY_YMD |
| GSH_AUCTION_BID_CONFIRMATION_C | Auction Bid Confirmation | DAILY_YMD |
| GSH_AUCTION_RESULTS_C | Auction Results | DAILY_YMD |
| GSH_REVISED_AUCTION_QUANTITIES_P | Revised Auction Quantities | DAILY_YMD |
| GSH_AUCTION_CURTAIL_NOTICE | GASBB Auction Curtailment Notice | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH | | |
| PUBLISHINGCATEGORYID: GSH_PRUDENTIAL_MANAGEMENT | | |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|---------------------------------------|---------------|
| GSH_REALLOCATION | Reallocation Confirmation | DAILY_YMD |
| GSH_PRUDENTIAL_EXPOSURE | Prudential Exposure | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH | | |
| PUBLISHINGCATEGORYID: GSH_REGISTRATION_AND_CONTACTS | | |
| GSH_CONTACTS_DETAILS | Contacts Details | DAILY_YMD |
| GSH_REGISTERED_PARTICIPANTS | Registered Participants | DAILY_YMD |
| GSH_TRADING_DELIVERY_CONTACTS | Trading and Delivery Contact Details | DAILY_YMD |
| GSH_REGISTERED_FACILITIES_P | Transportation Facility Register | DAILY_YMD |
| GSH_REGISTERED_SERVICE_PT_P | Transportation Service Point Register | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH | | |
| PUBLISHINGCATEGORYID: GSH_SETTLEMENTS_AND_BILLING | | |
| GSH_SETT_SUPPORTING_DATA | Settlements Supporting Data | DAILY_YMD |
| PUBLISHINGBUSINESSID: GSH | | |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|--------------------------------|---------------|
| PUBLISHINGCATEGORYID: GSH_TRADING | | |
| GSH_DELIVERY_NETT_PREFS | Delivery Netting Preferences | DAILY_YMD |
| GSH_ORDER_CONFIRMATION | Order Confirmation | DAILY_YMD |
| GSH_DELIVERY_OBLIGATIONS | Delivery Obligations | DAILY_YMD |
| GSH_TRADE_EXECUTION | Trade Execution | DAILY_YMD |
| GSH_HISTORICAL_TRANS_SUMMARY | Historical Transaction Summary | DAILY_YMD |
| GSH_DAILY_TRANS_SUMMARY | Daily Transaction Summary | DAILY_YMD |
| GSH_DELIVERED_QUANTITY | Delivered Quantity | DAILY_YMD |
| GSH_BENCHMARK_PRICE | GSH Benchmark Price | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM | | |
| PUBLISHINGCATEGORYID: MARKET_NEM_ALERTS | | |
| NEM_SD_CAPS_C | Semi-dispatch Cap Applied | DAILY_YMD |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--|---|---------------|
| VPP_INTERNAL_NOTIFICATION | VPP Internal notifications | DAILY_YMD |
| VPP_MAX_AGG_CAP_NOTIFICATION | VPP Notification for when aggregated capacity falls below registered capacity | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM | | |
| PUBLISHINGCATEGORYID: NETWORK_OPERATIONS | | |
| NOS | Network Outage Schedule (NOS) | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: AEMC_MARKET_DATA | | |
| AEMC_GAS_INT330_TOTALMIRNS_C | Gas Total Number of MIRNs (INT330) | CAL_MONTH |
| AEMC_GAS_INT331_MONTHLYCHURN_C | Gas Monthly Churn Activity (INT331) | CAL_MONTH |
| AEMC_GAS_INT332_COMDECOM_C | Gas Commission/Decommission Activity (INT332) | CAL_MONTH |
| AEMC_GAS_INT333_AGGCONSUMPTN_C | Gas Aggregated Consumption Activity (INT333) | CAL_MONTH |
| AEMC_ELECRETAIL_STATS_C | Elec Retail Stats | CAL_MONTH |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|-------------------------------|--------------------|
| AEMC_ELECWHLSALE_MTHLYENERGY_C | Elec Wholesale Monthly Energy | CAL_MONTH |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: MISCELLANEOUS | | |
| NEM_ENERGYDATA_C | NEM Energy | DAILY_YMD |
| NEM_ENERGYDATA_P | NEM Public Energy | DAILY_YMD |
| NEM_MISC_C | Miscellaneous | DAILY_YMD |
| NEM_MISC_P | Public Miscellaneous | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: NEM_CORRESPONDENCE | | |
| NEM_GUARANTEE_EXPIRY_C | NEM Guarantee Expiry | DAILY_YMD |
| NEM_MCL_REVIEW_C | NEM MCL Review | QUARTER |
| NEM_PART_FEES_C | NEM Participant Fees | FIN_YEAR |
| NEM_SETT_UPDATE | NEM Settlement Update | NEM_SETT_UPDATE_ID |
| NEM_OTHER_C | NEM Other | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: NEM_EXT_ALERTS | | |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--------------------------------|---|---------------|
| NEM_PCO_FORECAST_EXT_ALERT | Notification: Daily Forecasted Prudential Position (Afternoon) | DAILY_YMD |
| NEM_ALERT_EXT_RERT_ITT | NEM RERT ITT Alert | DAILY_YMD |
| NEM_PCO_POSITION_EXT_ALERT | Notification: Daily Prudential Position Actual (Morning) | DAILY_YMD |
| NEM_PRUD_TRAD_MARGIN_EXT_ALERT | Alert: Trading Limit Breach | DAILY_YMD |
| NEM_EARLY_PAY_FAIL_EXT_ALERT | Alert: Unsuccessful Early Payment | DAILY_YMD |
| NEM_EARLY_PAY_TODAY_EXT_ALERT | Reminder: Early Payment Due Today | DAILY_YMD |
| NEM_PAYER_EXT_ALERT | Reminder: Regular Settlement Receiver, Pays Next Settlement Day | DAILY_YMD |
| NEM_GUAR_EXP_11_EXT_ALERT | Alert: Bank Guarantee Due 1 Day (Expiry in 11 days) | DAILY_YMD |
| NEM_GUAR_EXP_20_EXT_ALERT | Reminder: Bank Guarantee Due 10 Business Days (Expiry in 20 days) | DAILY_YMD |
| NEM_INSUFF_CRE_SUPP_EXT_ALERT | Alert: Insufficient Credit Support in 5 Business Days | DAILY_YMD |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--|------------------------------------|---------------|
| NEM_BUSALERT_EXT_RERT_CANCEL | NEM RERT Cancellation Alert | DAILY_YMD |
| NEM_BUSALERT_EXT_RERT_ACT | NEM RERT Activation Alert | DAILY_YMD |
| NEM_BUSALERT_EXT_RERT_PREACT | NEM RERT PreActivation Alert | DAILY_YMD |
| NEM_ALERT_EXT_RERT_DACT | NEM RERT End of Activation Alert | DAILY_YMD |
| NEM_BUSALERT_EXT_RERT_ADJUST | NEM RERT Amendment Alert | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: NEM_MARKET_REPORTS | | |
| NEM_REPORT_MARKET_SUMM | NEM Market Summary Report | BILLING_WEEK |
| NEM_REPORT_REGION_INTER | NEM Regional Interconnector Report | BILLING_WEEK |
| NEM_REPORT_REGION_SUMMARY | NEM Regional Summary Report | BILLING_WEEK |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: NEM_MMS_DATA | | |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---------------------------------------|---------------------------------|---------------|
| NEM_MMS_SETT_C | NEM Confidential Settlements | BILLING_WEEK |
| NEM_MMS_BILLING_C | NEM Confidential Billing | BILLING_WEEK |
| NEM_MMS_PRUDENTIAL_C | NEM Confidential Prudential | DAILY |
| NEM_MMS_METER_C | NEM Confidential Meter | BILLING_WEEK |
| NEM_MMS_SETT_P | NEM Public Settlements | BILLING_WEEK |
| NEM_MMS_BILLING_P | NEM Public Billing | BILLING_WEEK |
| NEM_MMS_METER_INTER | NEM Public Interconnector Meter | BILLING_WEEK |
| NEM_BILLING_AER_C | Billing AER EnergyLoad | BILLING_WEEK |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: NEM_STATEMENTS | | |
| NEM_STMT_PRELIMINARY | NEM Preliminary Statement | BILLING_WEEK |
| NEM_STMT_FINAL | NEM Final Statement | BILLING_WEEK |
| NEM_STMT_MAKEUP | NEM Makeup Statement | BILLING_WEEK |
| NEM_STMT_SHORTFALL | NEM ShortFall Statement | BILLING_WEEK |
| NEM_STMT_REVISION | NEM Revision Statement | BILLING_WEEK |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--|--|---------------|
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: NEM_SUMMARY_DATA | | |
| NEM_SUMM_DIRECTIONS_P | NEM Directions Recovery Reconciliation | BILLING_WEEK |
| NEM_SUMM_NMAS_P | NEM NMAS Recovery Reconciliation | BILLING_WEEK |
| NEM_SUMM_DAILY_ENERGY_C | NEM Confidential Daily Energy Summary | BILLING_WEEK |
| NEM_SUMM_DAILY_ENERGY_P | NEM Public Daily Energy Summary | BILLING_WEEK |
| NEM_CO2E_INDEX_P | CDEII Summary Report | BILLING_WEEK |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: NEM_THIRD_PARTY_DATA | | |
| NEM_THIRDP_ASX | NEM ASX | QUARTER |
| NEM_THIRDP_ESC_C | NEM ESC | CAL_YEAR |
| NEM_THIRDP_ICRC_C | NEM ICRC | CAL_YEAR |
| NEM_THIRDP_IPART_C | NEM IPART | CAL_YEAR |
| NEM_THIRDP_ORER_C | NEM ORER | CAL_YEAR |
| NEM_THIRDP_QCA_C | NEM QCA | CAL_YEAR |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|--------------------------------|---------------|
| NEM_THIRDP_SFE | NEM SFE | QUARTER |
| NEM_THIRDP_ASXMONTHLYINTERIM | NEM ASX Monthly Data (interim) | CAL_MONTH |
| NEM_THIRDP_AER | NEM AER | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: PRICE_REPORTS | | |
| PRICE_REPORT_ELEC_MONTHLY_C | Price Monthly Report | CAL_MONTH |
| PRICE_REPORT_ELEC_QUARTERLY_C | Price Quarterly Report | CAL_MONTH |
| PRICE_REPORT_GAS_QUARTERLY_C | Price Gas Quarterly Report | CAL_MONTH |
| PRICE_REPORT_GSH_MONTHLY_C | Price GSH Monthly Report | CAL_MONTH |
| PRICE_REPORT_GSH_QUARTERLY_C | Price GSH Quarterly Report | CAL_MONTH |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: QLDGAS_CORRESPONDENCE | | |
| QLDGAS_OTHER_C | QldGas Other | DAILY_YMD |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--|------------------------------|---------------|
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: QLDGAS_STATEMENTS | | |
| QLDGAS_STMT_PRELIMINARY | QldGas Preliminary Statement | BILLING_MONTH |
| QLDGAS_STMT_FINAL | QldGas Final Statement | BILLING_MONTH |
| QLDGAS_STMT_REVISION | QldGas Revision Statement | BILLING_MONTH |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: SRA_CORRESPONDENCE | | |
| SRA_OTHER_C | SRA Other | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: SRA_STATEMENTS | | |
| SRA_STATEMENT_PURCHASE | SRA Final Purchase | QUARTER |
| SRA_STATEMENT_PROCEEDS | SRA Final Proceeds | QUARTER |
| SRA_STATEMENT_RECON | SRA Reconciliation | QUARTER |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|--|--------------------------------|---------------|
| SRA_STATEMENT_PUR_PRELIMINARY | SRA Preliminary Purchase | QUARTER |
| SRA_STATEMENT_PRO_PRELIMINARY | SRA Preliminary Proceeds | QUARTER |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: STTM_CORRESPONDENCE | | |
| STTM_MEL_C | STTM Minimum Exposure Letter | FIN_YEAR |
| STTM_OTHER_C | STTM Other | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: STTM_STATEMENTS | | |
| STTM_STMT_PRELIMINARY | STTM Preliminary Statement | BILLING_MONTH |
| STTM_STMT_FINAL | STTM Final Statement | BILLING_MONTH |
| STTM_STMT_REVISION | STTM Revision Statement | BILLING_MONTH |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS PUBLISHINGCATEGORYID: VICGAS_CORRESPONDENCE | | |
| VICGAS_MEL_C | VicGas Minimum Exposure Letter | FIN_YEAR |

| PUBLISHINGTYPEID | Description | PERIODCLASSID |
|---|------------------------------|---------------|
| VICGAS_UAFG_PRICE | VicGas UAFG Initial Pricing | CAL_MONTH |
| VICGAS_UAFG_DRAFT | VicGas UAFG Draft Statement | CAL_MONTH |
| VICGAS_UAFG_FINAL | VicGas UAFG Final Statement | CAL_MONTH |
| VICGAS_OTHER_C | VicGas Other | DAILY_YMD |
| PUBLISHINGBUSINESSID: NEM_SETTLEMENTS | | |
| PUBLISHINGCATEGORYID: VICGAS_STATEMENTS | | |
| VICGAS_STMT_PRELIMINARY | VicGas Preliminary Statement | BILLING_MONTH |
| VICGAS_STMT_FINAL | VicGas Final Statement | BILLING_MONTH |
| VICGAS_STMT_REVISION | VicGas Revision Statement | BILLING_MONTH |

Related rules and procedures

The following rules and procedures relate to e-Hub APIs:

| Name | Purpose |
|--|---|
| MNSP Convexity Rule | AEMC website > NER Clause 3.8.6A (e) |
| Introduction to Market Rules | AEMC website > NER Chapter 3 |
| Market Floor Price | AEMC website > NER 3.9.6 |
| Market Price Cap | AEMC website > NER 3.9.4 |
| Rebidding and Technical Parameters Guideline | https://www.aer.gov.au/wholesale-markets/market-guidelines-reviews/rebidding-and-technical-parameters-guideline-amendments-for-5-minute-settlement-2019 |

Glossary

30-min period

New rules term replacing Trading Interval, where the period remains as 30 minutes

AEMO API Gateway

The gateway on AEMO's side providing participant communication options, accessible over the internet or MarketNet. It uses resources and methods to push messages to Participants' API Gateways .

AEST

Australian Eastern Standard Time

API

Application Programming Interface. A set of clearly defined methods of communication between various software components.

API Portal

Where you can view available APIs, manage your API Keys, and obtain OAS files.

API Protocol

An e-Hub delivery method.

aseXML

A standard developed by Australian energy industries to facilitate the exchange of information between energy industry participants using XML.

Bids/Offers

Relates to the following Dispatch Bids: 1. Energy (Scheduled Loads) The term Offer relates to the following Dispatch Offers: 1. Energy (Generation Dispatch Offer) 2. Frequency Control Ancillary Service (FCAS) 3. Market Network Service Provider (MNSP - Network Dispatch Offer)

CSR

Certificate Signing Request is a block of encoded text given to a Certificate Authority when applying for an SSL Certificate. It also contains the Public Key to include in the certificate. Usually, a Private Key is created at the same time, making a Key Pair.

CSV

Comma-separated values; a file format for exchanging data.

Curl

A command line utility used to interact with REST API endpoints.

Data Model

The definition of the interface to participants of data published by AEMO for gas or electricity. A database conforming to the Data Model can contain a local copy of all current participant-specific data recorded in the main database. The Data Model includes database tables, indexes, and primary keys

DUID

Dispatchable Unit or MSNP Interconnector ID

e-Hub

Consists of the API Portal and the API Gateway for both electricity and gas.

EDM

Electricity Data Model

EMMS

Wholesale Electricity Market Management System; software, hardware, network and related processes to implement the energy market.

Endpoint

Where the API request is sent and where the response comes from.

FCAS

Frequency Control Ancillary Services

Fixed Load

Optional MW, not greater than the max. availability

FTP

File transfer protocol; a standard network protocol used for the transfer of computer files between a client and server on a computer network.

Header Parameters

Parameters included in the request header.

JSON

Java Standard Object Notation. An agreed format for text files and data exchange. This is now used by AEMO to receive Bids and Offers and provide responses

JSON Schema

Defines the structure and content of the bidding details.

Key Pair

SSL uses a technique called public-key cryptography, based on the concept of a Key Pair. The Key Pair consists of encrypted Public and Private Key data. It is only possible to decrypt the Public Key with the corresponding Private Key.

Link ID

Identifies the MNSP interconnector link in AEMO's systems. A property (linkId) in the MNSPBidLink object in the JSON bidding schema

MACK

Message Acknowledgement

MarketNet

AEMO's private network available to participants having a participant ID

Markets Portal

Web portal for access to AEMO's wholesale web-based applications.

Method

The allowed operation for a resource, e.g. GET, POST, PUT, DELETE, and so on. These operations determine whether you're reading information, creating new information, updating existing information, or deleting information.

MNSP

Market Network Service Provider

MSATS

Retail Market Settlement and Transfer Solution

MSATS Web Portal

MSATS web-based interactive interface

MW

Megawatt

NACK

Negative Acknowledgement (Rejection)

NER

National Electricity Rules

OAS

OpenAPI specification

OpenAPI specification document

The file, either in YAML or JSON, describing your REST API. Follows the OpenAPI specification format.

PA

Participant Administrator who manages participant company's user access and security. The initial PA is set up by the AEMO system administrator as part of the registration process.

Parameters

Parameters are options you pass with the endpoint (such as specifying the response format or the amount returned). There are four types of parameters: header parameters, path parameters, query string parameters, and request body parameters. The different types of parameters are often documented in separate groups on the same page. Not all endpoints contain each type of parameter. See Parameters for more details.

Participant API Gateway

The interface implemented by participants where AEMO pushes messages.

Participant File Server

The publishing point from AEMO systems to participant systems. Each participant is allocated an account and access to private and public areas. Participants are responsible for interfacing with the Participant File Server. If uncollected, files are moved to the archive folder after a couple of days. If your Data Interchange environment is configured properly it automatically retrieves the missing files from the archive. Files are kept in the archive for approximately six months. AEMO's production and pre-production environments are independently operated, so each environment has its own IP address for its Participant File Server. For help, see Connection to AEMO's IT Systems.

Participant ID

Registered participant identifier

Participant User ID

The user ID you used to login to the system.

Participant Users

Set up by the company's Participant Administrator.

Path

Parameters in the path of the endpoint, before the query string (?). Path parameters are usually set off within curly braces.

Payload

The data sent by a POST request. The Payload section sits after the header.

PID

Participant ID

Pre-production

AEMO's test system available to participants

Private Key

The secret Private Key is a text file used initially to generate a Certificate Signing Request (CSR), and later to secure and verify connections.

Production

AEMO's live system

Public Key

The Public Key is included as part of your SSL certificate, and works together with your Private Key to make sure your data is encrypted. Key (i.e. the certificate) can verify the digital signature is authentic without having to know the secret Private Key.

Query String Parameters

Parameters in the query string of the endpoint, after the ?.

Request

The way information is returned from an API. In a request, the client provides a resource URL with the proper authorization to an API server. The API returns a response with the information requested.

Request Body Parameters

Parameters in the request body. Usually submitted as JSON.

Response

The information returned by an API after a request is made. Responses are usually in JSON or XML format.

Response Example

The response example shows a sample response from the request example; the response schema defines all possible elements in the response. The response example is not comprehensive of all parameter configurations or operations, but it should correspond with the parameters passed in the request example. The response lets developers know if the resource contains the information they want, the format, and how that information is structured and labeled. The description of the response is known as the response schema. The response schema documents the response in a more comprehensive, general way, listing each property that could possibly be returned, what each property contains, the data format of the values, the structure, and other details.

REST

The Representational State Transfer API architecture

Service Type

ENERGY, MNSP, RAISE6SEC, RAISE60SEC, RAISE5MIN, RAISEREG, LOWER6SEC, LOWER60SEC, LOWER5MIN, LOWERREG

SSL

Secure Sockets Layer, cryptographic protocol providing API communication security

Submission

A Bid/Offer submission can have: 1. Multiple Trading Days 2. Multiple DUIDs/Interconnector IDs 3. All Service Types in the same Submission

Swagger file

Refers to the OpenAPI specification

TACK

Transaction Acknowledgement

Throttling

AEMO uses API throttling to prevent overwhelming the API Gateway.

TLS

Transport Layer Security, cryptographic protocol providing API communication security

Unit

Generating Unit

URM

User Rights Management; see the Guide to URM on AEMO's website

zip

The file compression format used for exchanging data with AEMO.

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