DH Sandbox API Documentation for TSO V2

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1 Documentation version history

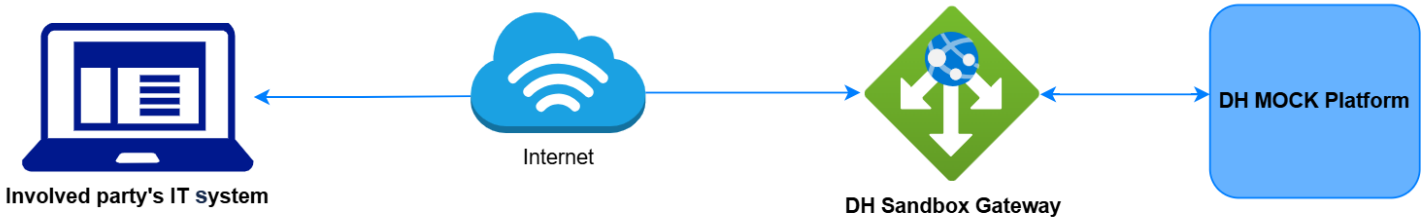
The table below provides information on document version history:

Version	Date	Description
2.0.0	2026-10-19	This version introduces a new approach to documentation. All prior versions remain available in the earlier documentation set.

Note: Changes in the table marked in white are already deployed, while those marked in green will be deployed soon.

2 Preface

This document is designed to guide through the process of effectively utilizing the sandbox environment. The sandbox environment is intended for testing and validating integration with the DH Platform without impacting live operations. It offers a safe space to explore API functionalities and execute test scenarios using mock data, as described in the Use Case Scenarios section.



Before using the Sandbox, we recommend reviewing the API structure and endpoint descriptions in the latest version of the DH API documentation for electricity transmission system operator (DH_API_documentation_for_TSO_latestVersion.pdf).

3 Environments

The DH platform provides two accessible environments:

- **Production environment** for live operations
- **Sandbox environment** with mock data for testing purposes

For full environment details, including base URLs and authorization, please refer to the latest version of the DH API documentation for electricity transmission system operator (DH_API_documentation_for_TSO_latestVersion.pdf).

4 Use case scenarios

This section presents technical use case scenarios to demonstrate API interaction within the sandbox environment using mock data. Each scenario supports end-to-end testing of workflows, API calls, and response handling.

To improve clarity and navigation, cases are grouped by functional domains (for example: **Orders**). This structure helps quickly locate relevant scenarios based on the system functionality.

Each use case is structured into the following components:

- **Overview**: Defines the logical sequence of actions in the use case.
- **Workflow Steps**: Lists the API endpoints and their execution order.
- **Example Flow**: Shows detailed mock request and response examples illustrating expected behavior.

4.1 Orders

4.1.1 Order and View Generation by Type Report

Preconditions:

- Data from the ordered report can only be viewed once the order status is marked as *Completed*. To verify the order status, refer to the *View Report List* scenario and apply the relevant filters (such as *latestStatus, orderTypes, orderId*).

This scenario describes how to:

- Order the **Generation by type** report.
- Retrieve data from the ordered **Generation by type** report.

The following table maps each step to its corresponding API endpoint:

Step	Description	API Endpoint
1	Order Report	POST /gateway/electricity-transmission-system-operator/order/balance-by-generation-type
2	Retrieve Report Data	GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-generation-type

The following examples illustrate each step from the workflow table above, showing sample requests and responses for the corresponding API calls.

Step: Order Report

Request

```
{
    "dateFrom": "YYYY-MM-DD", // Any date within 36 months
    "dateTo": "YYYY-MM-DD", // Value must not exceed 1 accounting period from dateFrom
    "interval": "HOUR"
}
```

Response

```
{
    "orderId": "<unique-order-id>"
}
```

Step: Retrieve Report Data

Request

```
GET /gateway/electricity-transmission-system-operator/order/100050/balance-by-generation-type
```

Response

```
Response is provided in the Balance by generation type 100050.json file.
```

4.1.1 Order and View Balance by Supplier Report

Preconditions:

- Data from the ordered report can only be viewed once the order status is marked as *Completed*. To verify the order status, refer to the *View Report List* scenario and apply the relevant filters (such as *latestStatus, orderTypes, orderId*).

This scenario describes how to:

- Order the **Balance by supplier** report.
- Retrieve data from the ordered **Balance by supplier** report.

The following table maps each step to its corresponding API endpoint:

Step	Description	API Endpoint
1	Order Report	POST /gateway/electricity-transmission-system-operator/order/balance-by-supplier
2	Retrieve Report Data	GET /gateway/electricity-transmission-system-operator/order/{orderId}/balance-by-supplier

Step: Order Report

Request

```
{
    "dateFrom": "YYYY-MM-DD", // Any date within 36 months
    "dateTo": "YYYY-MM-DD", // Value must not exceed 1 accounting period from dateFrom
    "interval": "HOUR"
}
```

Response

```
{
    "orderId": "<unique-order-id>"
}
```

Step: Retrieve Report Data

Request

```
GET /gateway/electricity-transmission-system-operator/order/100051/balance-by-supplier
```

Response

```
Response is provided in the Balance by supplier 100051.json file.
```

4.1.2 View Report List

Preconditions:

- A report must be created before executing this scenario.

This scenario describes how to:

- View the list of reports that have been created.

The following table maps each step to its corresponding API endpoint:

Step	Description	API Endpoint
1	View Report List	POST /gateway/electricity-transmission-system-operator/order/list

The following examples illustrate each step from the workflow table above, showing sample requests and responses for the corresponding API calls.

Step: View Report List (Filtered Examples)

Example 1 - Search by one parameter

Request

```
{
    "orderId": 100050
}
```

Response

```
[
  {
    "orderId": 100050,
    "orderType": "balance-by-generation-type",
    "submittedDate": "2023-11-06T18:10:11.282",
    "dateFrom": "2023-10-01",
    "dateTo": "2023-10-01",
    "orderParameters": "{\"interval\":\"HOUR\"}",
    "latestStatus": "IV",
    "statusDate": "2023-10-24T15:32:52.578",
    "expireDate": "2122-03-02T11:01:00"
  }
]
```

Example 2: Search by multiple parameters

Request

```
{
    "orderStatuses": [
        "IV"
    ],
    "orderId": 100050,
    "orderTypes": [
        "balance-by-generation-type"
    ]
}
```

Response

```
[
  {
    "orderId": 100050,
    "orderType": "balance-by-generation-type",
    "submittedDate": "2023-11-06T18:10:11.282",
    "dateFrom": "2023-10-01",
    "dateTo": "2023-10-01",
    "orderParameters": "{\"interval\":\"HOUR\"}",
    "latestStatus": "IV",
    "statusDate": "2023-10-24T15:32:52.578",
    "expireDate": "2122-03-02T11:01:00"
  }
]
```

Example 3 - Search by all parameters

Request

```
{
  "dateFrom": "2023-10-01",
  "dateTo": "2023-10-01",
  "orderId": 100050,
  "orderParametersSearch": "{\"interval\":\"HOUR\"}",
  "orderStatuses": [
    "IV"
  ],
  "orderTypes": [
    "balance-by-generation-type"
  ],
  "submittedDateFrom": "2023-11-06T00:00:00.000",
  "submittedDateTo": "2023-11-07T00:00:00.000"
}
```

Response

```
[
  {
    "orderId": 100050,
    "orderType": "balance-by-generation-type",
```

```
    "submittedDate": "2023-11-06T18:10:11.282",
    "dateFrom": "2023-10-01",
    "dateTo": "2023-10-01",
    "orderParameters": "{\"interval\":\"HOUR\"}",
    "latestStatus": "IV",
    "statusDate": "2023-10-24T15:32:52.578",
    "expireDate": "2122-03-02T11:01:00"
  }
]
```