

DH Sandbox API Documentation for Third Party V2

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1 Documentation version history

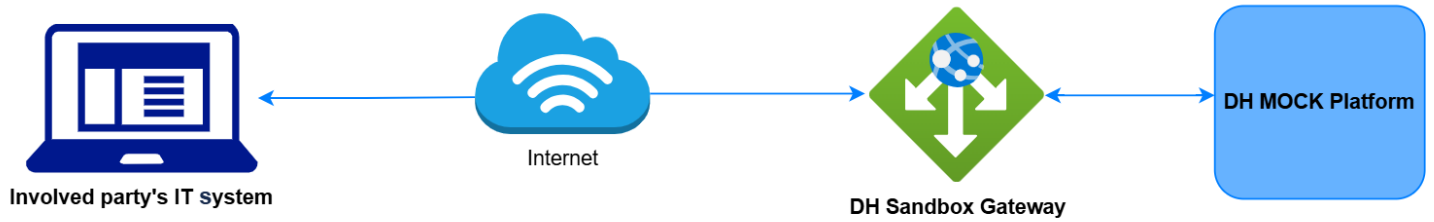
The table below provides information on document version history:

Version	Date	Description
2.0.0	2026-05-15	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 third party ([DH_API_documentation_for_third_party_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 third party ([DH_API_documentation_for_third_party_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: **Access Rights, 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 Access rights

4.1.1 Assign Rights and View Assignment Details

This scenario describes how to:

- Identify the object that requires an access rights assignment.
- Assign a right to an object.
- View the details of the assigned right in the right list.

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

Step	Description	API Endpoint
1	Identify Object for Right Assignment	POST /gateway/third-party/object/all/active/list
2	Assign Right to Object	POST /gateway/third-party/access-right
3	View Assigned Right Details	POST /gateway/third-party/access-right/list

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

Step: Identify Object for Right Assignment

Request

```
{
  "objectDataConsentSign": true,
  "objectNumber": "20240314"
}
```

Response

```
[
  {
    "personName": "Vardenis",
    "personSurname": "Pavardenis024",
```

```

"personCode": "*****314",
"consumerCode": "20240314",
"objectNumber": "20240314",
"objectAddress": "Kauno g. 1, Kėdainiai",
"automationLevel": "FULL",
"contractType": "SBTS",
"supplierType": "NT",
"tariffPlan": "Standartinis",
"timeZone": "2",
"accountingType": "NET_METERING",
"usedPowerPlants": [
  {
    "powerPlantObjectNumber": "20240314",
    "powerPlantType": "S",
    "generatingObjectType": "G",
    "generatingPower": 1,
    "accountingScheme": "NET_METERING",
    "accountingSchemeValidFrom": "2022-12-14",
    "accountingSchemeValidTo": null,
    "accountingSchemeChangeDate": "2024-01-01",
    "payoffMethod": "P",
    "payoffMethodChangeDate": "2024-01-01"
  }
],
"objectPowers": [
  {
    "powerType": "LOG",
    "power": 8,
    "powerValidFrom": "2023-07-01",
    "powerValidTo": null
  },
  {
    "powerType": "LGG",
    "power": 5,
    "powerValidFrom": "2023-07-01",
    "powerValidTo": null
  }
],
"generatingObjectGroup": {
  "generatingGroup": 1,
  "generatingObjectPriorityGroup": 2
},
"powerPlantObjectType": "S"
}
]

```

Step: Assign Right to Object

Request

```

{
  "accessRightInformation": [

```

```
{
  "accessRightEmailAddress": "vardenis.pavardenis024@a.lt",
  "accessRightNote": null,
  "accessRightPhoneNo": "+37063333333",
  "accessRightValidTo": "YYYY-MM-DD", // Any future date within 1 year
  "objectNumber": "20240314"
}
],
"consentSign": true,
"personBrithDate": null,
"personCode": "99201201314",
"personName": "Vardenis",
"personSurname": "Pavardenis024"
}
```

Response

```
[
  {
    "accessRightId": "<unique-access-right-id>"
  }
]
```

Step: View Assigned Right Details

Request

```
{
  "accessRightId": 100035,
  "consumerCode": "20240314",
  "objectNumber": "20240314",
  "generatingObjectType": "G",
  "contractType": "SBTS",
  "contractModel": "BSS",
  "accountingType": "NET_METERING",
  "powerPlantType": "S"
}
```

Response

```
[
  {
    "accessRightId": 100035,
    "accessRightValidFrom": "2024-10-07T15:17:07",
    "accessRightValidTo": "2128-10-07T15:17:07",
    "daysLeft": "<days-remaining-until-access-expires>",
    "accessRightSource": "DATAHUB",
    "userName": "PUBLIC",
    "objectNumber": "20240314",
    "objectAddress": "Kauno g. 1, Kėdainiai",
    "powerPlantObjectType": "S",
    "contractModel": "BSS",
    "supplierType": "NT",
    "tariffPlan": "Standartinis",
  }
]
```

```

"timeZone": "2",
"accountingType": "NET_METERING",
"usedPowerPlants": [
  {
    "powerPlantObjectNumber": "20240314",
    "powerPlantType": "S",
    "generatingObjectType": "G",
    "generatingPower": 1,
    "accountingScheme": "NET_METERING",
    "payoffMethod": "P"
  }
],
"automationLevel": "FULL",
"contractType": "SBTS",
"personName": "Vardenis",
"personSurname": "Pavardenis024",
"personCode": "*****314",
"consumerCode": "20240314",
"accessRightPhoneNo": "+37063333333",
"accessRightEmailAddress": "vardenis.pavardenis024@a.lt",
"accessRightNote": null
}
]

```

4.1.2 Cancel Assigned Right

This scenario describes how to:

- Identify the access right that needs to be canceled.
- Cancel the assigned access right.

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

Step	Description	API Endpoint
1	Identify Right to Cancel	POST /gateway/third-party/access-right/list
2	Cancel Assigned Access Right	POST /gateway/third-party/access-right/{accessRightId}/cancel

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

Step: Identify Right to Cancel

Request

```

{
  "accessRightId": 100033,
  "objectNumber": "20240226"
}

```

Response

```
[
  {
    "accessRightId": 100033,
    "accessRightValidFrom": "2024-10-07T15:17:07",
    "accessRightValidTo": "2128-10-07T15:17:07",
    "daysLeft": <days-remaining-until-access-expires>,
    "accessRightSource": "DATAHUB",
    "userName": "PUBLIC",
    "objectNumber": "20240226",
    "objectAddress": "Saulės g. 26, Klaipėda",
    "powerPlantObjectType": null,
    "contractModel": "BSS",
    "supplierType": "GT",
    "tariffPlan": "Namai",
    "timeZone": "2",
    "accountingType": "NET_BILLING",
    "usedPowerPlants": [
      {
        "powerPlantObjectNumber": "20240227",
        "powerPlantType": "S",
        "generatingObjectType": "N",
        "generatingPower": 9,
        "accountingScheme": "NET_BILLING",
        "payoffMethod": null
      },
      {
        "powerPlantObjectNumber": "20240228",
        "powerPlantType": "S",
        "generatingObjectType": "N",
        "generatingPower": 5,
        "accountingScheme": "NET_BILLING",
        "payoffMethod": null
      }
    ],
    "automationLevel": "FULL",
    "contractType": "SBTS",
    "personName": "Vardenis",
    "personSurname": "Pavardenis",
    "personCode": "*****444",
    "consumerCode": "20240226",
    "accessRightPhoneNo": null,
    "accessRightEmailAddress": "Vardenis.Pavardenis26@test.lt",
    "accessRightNote": null
  }
]
```

Step: Cancel Assigned Access Right

Request

```
POST /gateway/third-party/access-right/100033/cancel
```

Response

If the request is successful, an HTTP 200 Created message is returned.

4.2 Orders

4.2.1 View Report Object Limits

This scenario describes how to:

- Verify the number of objects already included in a specific report type for a given month and determine how many additional objects can be ordered within the same timeframe.

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

Step	Description	API Endpoint
1	View Usage for Object Count	GET /gateway/third-party/order/limits

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

Step: View Usage for Object Count

Note: This example demonstrates how to review object limits for the report type 'data-hr-obj-lvl-acr'. The same review can be applied to other report types.

Query parameters

```
orderType=data-hr-15min-obj-lvl-acr  
period=2024-11-01
```

Response

```
{  
  "period": "2024-11-01",  
  "orderType": "data-hr-15min-obj-lvl-acr",  
  "objectQuantityLimit": 100,  
  "objectRemainingQuantity": 98  
}
```

4.2.2 Order and View Automated Amount on Object Level Report Based on Granted Rights

Preconditions:

- The scenario requires the object to have an assigned right. If the right has not been assigned yet, follow the process outlined in the [Assign Right and View Assignment Details](#) scenario.

- Before ordering a report, verify the remaining object limit. If needed, follow steps outlined in the [View Report Object Limits](#) scenario.
- Data from the ordered report can only be viewed once the order status is *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 **Automated amount on meter level** report.
- Retrieve data from the ordered **Automated amount on meter level** report.

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

Step	Description	API Endpoint
1	Order Report	POST /gateway/third-party/order/data-hr-15min-obj-lvl-acr
2	Retrieve Report Data	GET /gateway/third-party/order/{orderId}/data-hr-15min-obj-lvl-acr

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

Step: Order Report

Example 1 - Hourly net metering data report

Request

```
{
  "dateFrom": "YYYY-MM-DD", // Any date within 36 months
  "dateTo": "YYYY-MM-DD", // Value must not exceed 12 months from dateFrom
  "consumptionCategories": [
    "P+",
    "P-"
  ],
  "objectNumbers": [
    "55555555"
  ],
  "interval": "HOUR"
}
```

Example 2 - Hourly net billing data report (power plant data aggregated)

Request

```
{
  "consumptionCategories": [
    "P+",
    "P-"
  ],
  "dateFrom": "YYYY-MM-DD", // Any date within 36 months
```

```
"dateTo": "YYYY-MM-DD", // Value must not exceed 12 months from dateFrom
"interval": "HOUR",
"objectNumbers": [
  "20240220"
],
"netBilling": {
  "intervalData": true,
  "intervalDataDetailed": false
}
}
```

Example 3 - Hourly net billing data report (including detailed power plant data)

Request

```
{
  "consumptionCategories": [
    "P+",
    "P-"
  ],
  "dateFrom": "YYYY-MM-DD", // Any date within 36 months
  "dateTo": "YYYY-MM-DD", // Value must not exceed 12 months from dateFrom
  "interval": "HOUR",
  "objectNumbers": [
    "20240220"
  ],
  "netBilling": {
    "intervalData": true,
    "intervalDataDetailed": true
  }
}
```

All requests return the same response

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

Step: Retrieve Report Data

Example 1 - Hourly net metering data report

Request

```
GET /gateway/third-party/order/100020/data-hr-15min-obj-lvl-acr
```

Response

Response is provided in the [Automated amount on object level report based on granted rights 100020.json](#) file.

Example 2 - Hourly net billing data report (power plant data aggregated)

Request

```
GET /gateway/third-party/order/100061/data-hr-15min-obj-lvl-acr
```

Response

Response is provided in the [Automated amount on object level report based on granted rights 100061.json](#) file.

Example 3 - Hourly net billing data report (including detailed power plant data)

Request

```
GET /gateway/third-party/order/100062/data-hr-15min-obj-lvl-acr
```

Response

Response is provided in the [Automated amount on object level report based on granted rights 100062.json](#) file.

4.2.3 Order and View Automated Amount on Meter Level Report Based on Granted Rights

Preconditions:

- The scenario requires the object to have an assigned right. If the right has not been assigned yet, follow the process outlined in the [Assign Right and View Assignment Details](#) scenario.
- Before ordering a report, verify the remaining object limit. If needed, follow steps outlined in the [View Report Object Limits](#) scenario.
- Data from the ordered report can only be viewed once the order status is *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 **Automated amount on meter level** report.
- Retrieve data from the ordered **Automated amount on meter level** report.

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

Step	Description	API Endpoint
1	Order Report	POST /gateway/third-party/order/data-hr-15min-mtr-lvl-acr
2	Retrieve Report Data	GET /gateway/third-party/order/{orderId}/data-hr-15min-mtr-lvl-acr

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

Step: Order Report

Note: Multiple POST request variants are possible (different combinations of parameters, e.g., consumption category). The GET response below shows one example with multiple consumption categories.

Example 1 - Report with consumption data

Request

```
{
  "dateFrom": "YYYY-MM-DD", // Any date within 36 months
  "dateTo": "YYYY-MM-DD", // Value must not exceed 12 months from dateFrom
  "consumptionCategories": [
    "P+"
  ],
  "objectNumbers": [
    "444444444"
  ],
  "interval": "HOURL"
}
```

Example 2 - Report with consumption and generation data

Request

```
{
  "dateFrom": "YYYY-MM-DD", // Any date within 36 months
  "dateTo": "YYYY-MM-DD", // Value must not exceed 12 months from dateFrom
  "consumptionCategories": [
    "P+", "P-"
  ],
  "objectNumbers": [
    "444444444"
  ],
  "interval": "HOURL"
}
```

All requests return the same response

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

Step: Retrieve Report Data

Request

```
GET /gateway/third-party/order/100026/data-hr-15min-mtr-lvl-acr
```

Response

Response is provided in the [Automated amount on meter level report based on granted rights 100026.json](#) file.

4.2.4 Order and View Object Report Based on Granted Rights

Preconditions:

- The scenario requires the object to have an assigned right. If the right has not been assigned yet, follow the process outlined in the [Assign Right and View Assignment Details](#) scenario.
- Before ordering a report, verify the remaining object limit. If needed, follow steps outlined in the [View Report Object Limits](#) scenario.
- Data from the ordered report can only be viewed once the order status is *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 a report for the **objects with assigned rights**.
- Retrieve data from the ordered **objects report with assigned rights**.

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

Step	Description	API Endpoint
1	Order Report	POST /gateway/third-party/order/report-obj-acr
2	Retrieve Data	GET /gateway/third-party/order/{orderId}/report-obj-acr

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

```
{
  "objectNumbers": [
    "20240220",
    "14725836",
    "20240314",
    "20240315",
    "20250129"
  ]
}
```

Response

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

Step: Retrieve Report Data

Request

```
GET /gateway/third-party/order/100089/report-obj-acr
```

Response

Response is provided in the [Object report based on granted rights 100089.json](#) file.

4.2.5 Order and View Cumulative Quantities Report Based on Granted Rights

Preconditions:

- The scenario requires the object to have an assigned right. If the right has not been assigned yet, follow the process outlined in the [Assign Right and View Assignment Details](#) scenario.
- Before ordering a report, verify the remaining object limit. If needed, follow steps outlined in the [View Report Object Limits](#) scenario.
- Data from the ordered report can only be viewed once the order status is *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 **Cumulative Quantities** report.
- Retrieve data from the ordered **Cumulative Quantities** report.

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

Step	Description	API Endpoint
1	Order Report	POST /gateway/third-party/order/data-sum-obj-lvl-acr
2	Retrieve Report Data	GET /gateway/third-party/order/{orderId}/data-sum-obj-lvl-acr

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", // First day of month, within 36 months
  "dateTo": "YYYY-MM-DD", // Last day of month (or today, if it is the current month)
  "objectNumbers": [
    "99999999"
  ]
}
```

Response

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

Step: Retrieve Report Data

Request

```
GET /gateway/third-party/order/100028/data-sum-obj-lvl-acr
```

Response

Response is provided in the [Cumulative quantities report based on granted rights 100028.json](#) file.

4.2.6 View Report List

Preconditions:

- A report order must be created before this scenario can be executed.

This scenario describes how to:

- View the list of report orders.

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

Step	Description	API Endpoint
1	View Report List	POST /gateway/third-party/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": 100026
}
```

Response

```
[
  {
    "orderId": 100026,
    "orderType": "data-hr-15min-mtr-lvl-acr",
    "submittedDate": "2022-03-01T11:00:00.624",
    "dateFrom": "2021-03-01",
    "dateTo": "2021-03-01",
    "orderParameters": "{\"consumptionCategories\": [\"P+\", \"P-\"], \"objectNumbers\": [\"44444444\"], \"interval\": \"HOOR\"}",
    "latestStatus": "IV",
    "statusDate": "2022-03-01T11:00:00.624",
    "expireDate": "2122-03-02T11:01:00.624",
    "auto": false,
    "userName": "PUBLIC"
  }
]
```

Example 2: Search by multiple parameters

Request

```
{
  "latestStatuses": [
    "IV"
  ],
  "orderId": 100061,
  "orderTypes": [
    "data-hr-15min-obj-lvl-acr"
  ]
}
```

Response

```
[
  {
    "orderId": 100061,
    "orderType": "data-hr-15min-obj-lvl-acr",
    "submittedDate": " 2024-03-07T11:00:00.624",
    "dateFrom": "2024-02-20",
    "dateTo": "2024-02-20",
    "orderParameters": "{\\"consumptionCategories\\":[\\"P+\\"],\\"P-
\\",\\"objectNumbers\\":[\\"20240220\\"],\\"interval\\":\\"HOUR\\"},\\"netBilling\\":{\\"intervalData\\":true,\\"intervalDataDetailed\\":false}}",
    "latestStatus": "IV",
    "statusDate": "2024-03-07T12:01:00.624",
    "expireDate": "2122-03-07T10:01:00.624",
    "auto": false,
    "userName": "PUBLIC"
  }
]
```

Example 3 - Search by all parameters

Request

```
{
  "auto": false,
  "dateFrom": "2021-03-01",
  "dateTo": "2022-02-28",
  "latestStatuses": [
    "IV"
  ],
  "orderId": 100028,
  "orderParametersSearch": "{\\"objectNumbers\\":[\\"99999999\\"]]",
  "orderTypes": [
    "data-sum-obj-lvl-acr"
  ],
  "submittedDateFrom": "2022-03-01T11:00:00.000",
  "submittedDateTo": "2022-03-02T11:00:00.000",
  "userNameSearch": "PUBLIC"
}
```

Response

```
[
  {
    "orderId": 100028,
    "orderType": "data-sum-obj-lvl-acr",
    "submittedDate": "2022-03-01T11:00:00.624",
    "dateFrom": "2021-10-01",
    "dateTo": "2021-10-31",
    "orderParameters": "{\"objectNumbers\": [\"99999999\"]}",
    "latestStatus": "IV",
    "statusDate": "2022-03-01T11:00:00.624",
    "expireDate": "2122-03-02T11:01:00.624",
    "auto": false,
    "userName": "PUBLIC"
  }
]
```

4.2.7 View Report Line Count

Preconditions:

- A report with *Completed* status must be created before executing this scenario.

This scenario describes how to:

- View the line count of the report with *Completed* status.

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

Step	Description	API Endpoint
1	View Report Line Count	GET /gateway/third-party/order/{orderId}/count

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

Step: View Report Line Count

Request

```
GET /gateway/third-party/order/100089/count
```

Response

```
{
  "count": 4
}
```