# DH API documentation for independent supplier

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# 1. Documentation version history

The table below provides information on document version history:

| Version | Date | Description |
|---|---|---|
| The previous document history information is available in the *DH API documentation for independent supplier (version: 0.11.4, date: 2024-12-04)* | | |
| 0.10.72 | 2024-06-05 | Changed location of graphVersion attribute in methods:<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl-acr |
| 0.10.73 | 2024-06-05 | The data type value of the attribute amount has been updated in methods:<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl-acr |
| 0.10.74 | 2024-06-06 | Updated rule description with 21 error code in method:<br>• POST /gateway/notification/contract<br>Updated rule description with 416 error code in method:<br>• POST /gateway/notification/contract/contact |
| 0.10.75 | 2024-06-06 | Removed attribute "contractType" from methods:<br>• POST /gateway/order/data-sum-obj-lvl<br>• GET /gateway/order/{orderId}/data-sum-obj-lvl |
| 0.10.76 | 2024-06-12 | Added recommendations for the Net billing process. |
| 0.10.77 | 2024-06-17 | Added new json response attribute accountingScheme in methods:<br>• GET /gateway/order/{orderId}/bill-bss-b2c<br>• GET /gateway/order/{orderId}/bill-bss-b2b<br>• GET /gateway/order/{orderId}/bill-2s2s-b2b |
| 0.10.78 | 2024-06-21 | Added text "Deprecates on 2024-12-12" in methods:<br>• POST / gateway/object/v2/all/active/list |

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| | | • POST / gateway/object/v2/my/active/list<br>• POST / gateway/order/v2/report-obj-acr<br>• GET /gateway/order/v2/{orderId}/report-obj<br>• GET /gateway/order/v2/{orderId}/report-obj-acr |
| 0.10.79 | 2024-06-28 | Removed error with error code 1003 in methods (only in documentation):<br>• POST /gateway/order/data-hr-15min-history-changes<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/contract/termination<br>• POST /gateway/notification/contract/object/supply-state<br>• POST /gateway/notification/cancellation<br>• POST /gateway/notification/contract/tariff-plan<br>• POST /gateway/notification/contract/contact |
| 0.10.80 | 2024-07-01 | Removed errors with error code 2012, 2013 and added 2033 in method:<br>• POST /gateway/order/data-hr-15min-history-changes |
| 0.10.81 | 2024-07-24 | Added error with error code 2028 in methods:<br>• POST /gateway/order/v2/data-hr-15min-mtr-lvl<br>• POST /gateway/order/v2/data-hr-15min-mtr-lvl-acr |
| 0.10.82 | 2024-08-13 | Added new methods:<br>• POST /gateway/order/move-in-obj<br>• GET /gateway/order/{orderId}/move-in-obj<br>• POST /gateway/order/move-out-obj<br>• GET /gateway/order/{orderId}/move-out-obj<br>Added new orderTypes in the method POST/gateway/order/v2/list:<br>• move-in-obj<br>• move-out-obj |
| 0.10.83 | 2024-08-14 | Added new statistic names in service ORDERS for Incoming Objects and Outgoing Objects reports in method:<br>• GET /gateway/statistic/list |
| 0.10.84 | 2024-08-19 | Added new json response attribute accumulatedPeriod in methods:<br>• GET /gateway/order/{orderId}/bill-bss-b2c<br>• GET /gateway/order/{orderId}/bill-bss-b2b<br>• GET /gateway/order/{orderId}/bill-2s2s-b2b |

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| 0.10.85 | 2024-08-21 | In method POST /gateway/notification/contract:<br>• error codes 108 and 12 have been removed<br>• changed rule description and error message for error code 24.<br>• added new error code 165.<br>In method POST /gateway/notification/v2/contract/list:<br>• updated description of JSON response attribute anotherSupplierContractCancelation.<br>• updated description of JSON response attribute cancelledByAnotherSupplier.<br>• added new JSON response attribute cancelledByAnotherSupplierDetails.<br>• added new error types (AO, AP) of attribute errorType. |
| 0.10.86 | 2024-08-21 | Added new values for attribute errorType in method:<br>• POST /gateway/notification/v2/contract/object/supply-state/list |
| 0.10.87 | 2024-08-23 | Added new accountingType value ENERGY_SHARER in methods:<br>• POST /gateway/object/v3/my/active/list<br>• POST /gateway/object/v3/all/active/list<br>• GET /gateway/order/v3/{orderId}/report-obj<br>• GET /gateway/order/v3/{orderId}/report-obj-acr |
| 0.10.88 | 2024-08-27 | Added new parameter and JSON response attribute objectAccountingType in method:<br>• GET gateway/statistic/list |
| 0.10.89 | 2024-09-04 | Added new values of generationType and the possible combinations of the generation Category attribute have been removed in methods:<br>• POST /gateway/order/balance-by-generation-type<br>• GET /gateway/order/{orderId}/balance-by-generation-type |
| 0.10.90 | 2024-09-12 | Added new values of powerPlantType in methods:<br>• POST /gateway/access-right/v2/list<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl<br>• GET /gateway/order/v2/{orderId}/report-obj<br>• GET /gateway/order/{orderId}/data-hr-15min-obj-lvl-acr<br>• GET /gateway/order/v2/{orderId}/report-obj-acr<br>• GET /gateway/order/v3/{orderId}/report-obj<br>• GET /gateway/order/v3/{orderId}/report-obj-acr<br>• POST /gateway/object/v2/my/active/list<br>• POST /gateway/object/v2/all/active/list |

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| | | • POST /gateway/object/v3/my/active/list<br>• POST /gateway/object/v3/all/active/list |
| 0.10.91 | 2024-10-08 | Added new method:<br>• POST /gateway/access-right/v3/list |
| 0.10.92 | 2024-10-09 | Added new atribute powerPlantObjectType in methods:<br>• POST /gateway/object/v3/all/active/list (JSON response)<br>• POST /gateway/object/v3/my/active/list (JSON response) |
| 0.10.93 | 2024-10-09 | Added powerPlantObject information and installedGeneratingPower atributes in methods:<br>• GET /gateway/order/v3/{orderId}/report-obj<br>• GET /gateway/order/v3/{orderId}/report-obj-acr |
| 0.10.94 | 2024-10-14 | Added new controller:<br>• Involved party permission controller<br>Added new method in the Involved party permission controller:<br>• POST /gateway/involved-party-permission/list<br>In the POST /gateway/order/balance-data request added:<br>• a new JSON attribute involvedPartyPermissionId<br>• 6, 7 rules with error codes 3101, 3102<br>In the POST /gateway/order/balance-by-generation-type request added:<br>• a new JSON attribute involvedPartyPermissionId<br>• 6, 7 rules with error codes 3101, 3102<br>In the POST/gateway/order/v2/list request and response:<br>• added new attribute involvedPartyPermissionId |
| 0.10.95 | 2024-10-16 | Added new order controller methods:<br>• POST /gateway/order/power-plant<br>• GET /gateway/order/{orderId}/power-plant |
| 0.10.96 | 2024-10-17 | Added new statistic names in service ORDERS for power plant order in method:<br>• GET/gateway/statistic/list |

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| 0.10.97 | 2024-10-23 | powerPlantObjects renamed to usedPowerPlants in method:<br>• POST /gateway/access-right/v3/list |
| 0.10.98 | 2024-10-28 | In the method GET gateway/statistic/list<br>• added possible value NO_TYPE for attribute objectAccountingType |
| 0.10.99 | 2024-10-28 | In the Statistic controller:<br>• Added new service name INVOLVED_PARTY_PERMISSION<br>Added new statistic names in the INVOLVED_PARTY_PERMISSION SERVICE:<br>• GRANTED_PERMISSION_BALANCE_DATA_COUNT<br>• GRANTED_PERMISSION_BALANCE_BY_GENERATION_TYPE_COUNT<br>• RECEIVED_PERMISSION_BALANCE_DATA_COUNT<br>• RECEIVED_PERMISSION_BALANCE_BY_GENERATION_TYPE_COUNT<br>Added new statistic names in the ORDER SERVICE:<br>• BALANCE_DATA_QUARTER_PERMISSION_COUNT<br>• BALANCE_DATA_HOUR_PERMISSION_COUNT<br>• BALANCE_BY_GENERATION_TYPE_QUARTER_PERMISSION_COUNT<br>• BALANCE_BY_GENERATION_TYPE_HOUR_PERMISSION_COUNT<br>In the method GET /gateway/statistic/list:<br>• added possible value INVOLVED_PARTY_PERMISSION for attribute serviceName |
| 0.11.1 | 2024-11-14 | In method POST /gateway/involved-party-permission/list added:<br>• attribute userName in response |
| 0.11.2 | 2024-11-21 | Only in documentation changed data types to attributes: validFrom, validTo, typeValidFrom, typeValidTo, generatingSources.validFrom, generatingSources.validTo. Method:<br>• GET /gateway/order/{orderId}/power-plant |

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| 0.11.3 | 2024-11-25 | Added new methods:<br>• POST /gateway/notification/v3/contract/list<br>• POST /gateway/notification/v2/contract<br>• POST /gateway/notification/v3/contract/tariff-plan/list<br>• POST /gateway/notification/v2/contract/tariff-plan<br><br>Added deprecated preliminary dates to the older versions:<br>• POST /gateway/notification/v2/contract/list<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v3/contract/tariff-plan/list<br>• POST /gateway/notification/contract/tariff-plan |
| 0.11.4 | 2024-11-29 | Added the generatingSources.type attribute's value K in method:<br>• GET /gateway/order/{orderId}/power-plant |
| 0.11.5 | 2024-12-12 | Removed deprecated methods:<br>• POST /gateway/object/v2/my/active/list<br>• POST /gateway/object/v2/all/active/list<br>• POST /gateway/order/v2/report-obj<br>• POST /gateway/order/v2/report-obj-acr<br>• GET /gateway/order/v2/{orderId}/report-obj<br>• GET /gateway/order/v2/{orderId}/report-obj-acr |
| 1.0.0 | 2024-12-19 | Document revision:<br>• Reduced the history table to 6 months of changes.<br>• Changed "Obligation" to "Mandatory" with values "Y" and "N"<br>• Descriptions of parameters are placed in separate tables<br>• Repetitive information, such as HTTP status codes and JSON error message structure, has been moved to general information with links.<br>• Deleted sequence numbers in the tables<br>• Managed JSON request/response data types<br>• Other document style adjustments |
| 1.0.1 | 2024-01-06 | Added new JSON response attributes: powerPlantCapacitySource, powerPlantCapacitySourceDateFrom, powerPlantCapacitySourceDateTo, gaConsumptionAmount, vgConsumptionAmount, gaUnit, vgUnit, gaPriceEur, gaPriceEurVAT, |

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| | | vgPriceEur, vgPriceEurVAT, gaDiscount, vgDiscount, gaAmount, gaAmountNoVAT, vgAmount, vgAmountNoVAT, gaIncludedVAT, vgIncludedVAT. Method:<br>• GET /gateway/order/{orderId}/bill-bss-b2c |
| 1.0.2 | 2024-01-13 | In the response of method GET /gateway/order/{orderId}/bill-2s2s-b2b added new JSON attributes:<br>• usedPowerPlant.powerPlantObjectNumber<br>• usedPowerPlant.generatingPower |
| 1.0.3 | 2025-01-15 | In the response of methods GET /gateway/order/{orderId}/move-out-obj and GET /gateway/order/{orderId}/move-in-obj added new JSON attributes:<br>• contractType<br>• generatingObjectType |
| 1.0.4 | 2025-01-17 | Added new JSON response attribute 'usedPowerPlantTotalPower' and changed the filling algorithm for the attribute 'permitablePowerGeneration' in the following methods:<br>• GET /gateway/order/v3/{orderId}/report-obj<br>• GET /gateway/order/v3/{orderId}/report-obj-acr |
| 1.0.5 | 2025-01-27 | Added new rules (error codes 333, 334, 335, 336, 337, 338) and added notes to existing rules (error codes 305, 308, 310, 311) about how long the specific rules will be active. Methods:<br>• POST /gateway/notification/v2/contract/tariff-plan<br>• POST /gateway/notification/contract/tariff-plan<br>Added new rule with error code 339 in the following method:<br>• POST /gateway/notification/v2/contract/tariff-plan |
| | 2025-01-28 | Added new JSON response attribute 'generatingObjectType' in the following methods:<br>• GET /gateway/order/v3/{orderId}/report-obj<br>• GET /gateway/order/v3/{orderId}/report-obj-acr<br>Added exception to existing rule (error code 210) in the following methods:<br>• POST /gateway/notification/contract/tariff-plan<br>• POST /gateway/notification/contract |
| | 2025-01-30 | Added new rules (error codes 212, 213, 214, 215, 216, 217, 218) and added notes to existing rules (error codes 27, 30, 29, 49) about how long the specific rules will be active. Methods:<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v2/contract |

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| 1.0.6 | 2025-02-05 | In the response of the method GET /gateway/order/{orderId}/bill-bss-b2c, the attribute names were renamed as follows:<br>• powerPlantCapacitySource → gaPower<br>• powerPlantCapacitySourceDateFrom → gaPowerDateFrom<br>• powerPlantCapacitySourceDateTo →gaPowerDateTo |
| 1.0.7 | 2025-02-13 | Changed error code 216 to 219 in the following methods:<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v2/contract |
| 1.0.8 | 2025-03-03 | Added new methods:<br>• POST /gateway/order/balance-data-by-contract-type<br>• GET /gateway/order/{orderId}/balance-data-by-contract-type<br>In method POST /gateway/order/v2/list added new orderType meaning. |
| 1.0.9 | 2025-05-14 | New methods added to the new Messaging controller<br>• GET /gateway/messaging/events<br>• GET /gateway/messaging/files |
| | 2025-05-19 | Added validation rule 3500 in method GET /gateway/messaging/events |
| 1.0.10 | 2025-05-30 | Incorrectly indicated application dates for rules (where error codes 213, 215, 218, 219) in the notes have been corrected. 2026-01-01 has been changed to 2025-06-01. Methods:<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v2/contract |
| | 2025-06-05 | Changed deprecation dates from 2025-06-17 to 2025-07-24 for the following methods<br>• POST /gateway/access-right/v2/list<br>• POST /gateway/notification/v2/contract/list<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v2/contract/tariff-plan/list<br>• POST /gateway/notification/contract/tariff-plan |
| 1.0.11 | 2025-06-09 | In the Statistic controller:<br>• Added new service name MESSAGING<br>Added new statistic names in the MESSAGING SERVICE:<br>• INTERVAL_DELTA_READING_FILE_COUNT<br>• INTERVAL_DELTA_READING_FILE_OBJECT_COUNT |

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| | | • INTERVAL_DELTA_READING_FILE_METER_COUNT<br>In the method GET /gateway/statistic/list:<br>• added possible value MESSAGING for attribute serviceName |
| 1.0.12 | 2025-06-19 | In the method GET /gateway/messaging/events<br>• added new eventType value ACCOUNTING_PERIOD_CLOSED |
| 1.0.13 | 2025-06-25 | Changed error codes:<br>• 3500 to 1032 in method GET /gateway/messaging/events<br>• 3501 to 3500 in method GET /gateway/messaging/files |
| | 2025-06-30 | Changes only in documentation. In the method POST /gateway/notification/v2/contract:<br>• Removed rules with error codes 31 and 38 (216 is applied instead of the removed rules). |
| 1.0.14 | 2025-07-03 | In the method POST /gateway/object/v3/all/active/list:<br>• Removed error code 2021.<br>• Changed error code from 47 to 1020.<br>• Changed values in the column “Mandatory“:<br>  ○ Y -> N (scaleIdentifier, scaleProduct, contractModel, tariffPlan, timeZone, contractStart)<br>  ○ N -> Y (supplierType, powerPlantValidFrom)<br>These changes are made in the documentation only. |
| | 2025-07-04 | In the method POST /gateway/notification/v2/contract:<br>• Removed error codes 212, 214, 217, 27, 29, 30, 49<br>• Removed notes near rules with error codes 213, 215, 218, 219<br>In the method POST /gateway/notification/v2/contract/tariff-plan:<br>• Removed error codes 335, 337, 305, 308, 310, 311<br>• Removed notes near rules with error codes 333, 334, 336, 338 |
| 1.0.15 | 2025-07-14 | Deprecated methods have been removed:<br>• POST /gateway/notification/v2/contract/list<br>• POST /gateway/notification/contract<br>• POST /gateway/notification/v2/contract/tariff-plan/list<br>• POST /gateway/notification/contract/tariff-plan<br>• POST /gateway/access-right/v2/list |

| | | |
|---|---|---|
| 1.0.16 | 2025-07-23 | In the POST /gateway/object/v3/all/active/list method, the request parameter *sort* has been replaced in the documentation with two separate parameters: *sortKey* and *sortOrder*. This change reflects the actual API behavior, which has supported *sortKey* and *sortOrder* all along. |
| 1.0.17 | 2025-08-11 | • Section 6.8 “Delta Interval Readings” added.<br>• In the method GET /gateway/messaging/files:<br>  ○ updated JSON response<br>  ○ added AVRO schema<br><br>**Note:** The changes made only in the documentation itself. |
| | 2025-08-11 | Section 6.9 “Accounting Period Closure Events” added.<br><br>**Note:** The changes made only in the documentation itself. |
| 1.0.18 | 2025-08-27 | Changed statistic names in the Messaging Controller for the Delta Interval Reading service:<br>• INTERVAL_DELTA_READING_FILE_COUNT → INTERVAL_DELTA_READING_EVENT_COUNT<br>• INTERVAL_DELTA_READING_FILE_OBJECT_COUNT → INTERVAL_DELTA_READING_EVENT_OBJECT_COUNT<br>• INTERVAL_DELTA_READING_FILE_METER_COUNT → INTERVAL_DELTA_READING_EVENT_METER_COUNT |
| 1.0.19 | 2025-09-02 | Added clarification about readingTime attribute in File Data Structure section of Delta Interval Reading recommendations |
| 1.0.20 | 2025-09-24 | In the POST /gateway/object/v3/all/active/list endpoint, the objectDataConsentSign request attribute was updated from optional (N) to mandatory (Y) in the documentation. No technical changes were made to the API itself. |
| 1.0.21 | 2026-01-07 | • Added two new API endpoints:<br>  ○ POST /gateway/order/dso-consumption-production<br>  ○ GET /gateway/order/{orderId}/dso-consumption-production<br>• Renamed column from "URL" to "Endpoint" in the API endpoints overview tables<br>• Updated rule descriptions for error codes: 1002, 1008, 2012, 2010, 2016, 2017, 2018, 2015, 2024 |
| | 2026-01-09 | • Error codes 166, 167 have been added to the API endpoint POST /gateway/notification/v2/contract.<br>• Error code 129 have been added to the API endpoint POST /gateway/notification/contract/termination. |
| 1.0.22 | 2026-02-05 | Added new statistic name entries to the Order Service in API endpoint GET gateway/statistic/list:<br>• DSO_CONSUMPTION_PRODUCTION_QUARTER_COUNT<br>• DSO_CONSUMPTION_PRODUCTION_HOUR_COUNT |

| | | |
|---|---|---|
| 1.0.23 | 2026-02-26 | **Performance-impacting change:**<br>• The processing logic for Net Billing data has been updated. The number of objects included in each request now directly affects performance. It is strongly recommended to batch the maximum allowed number of objects per request.<br>• A new documentation section (6.7.4 “Usage Recommendations”) has been introduced after “Net billing process”, summarizing best practices for batching and request optimization.<br>• Affected endpoints:<br>  ○ POST /gateway/order/data-hr-15min-history-changes<br>  ○ POST /gateway/order/v2/data-hr-15min-obj-lvl<br>  ○ POST /gateway/order/v2/data-hr-15min-obj-lvl-acr |
| 1.0.24 | 2026-03-02 | Updated the rule description for error code 2032 and its corresponding error message. The modifications have been applied to the POST /gateway/order/v2/data-hr-15min-obj-lvl API endpoint. |
| | 2026-03-02 | The error code 2023 has been removed from the following API endpoints:<br>• POST /gateway/order/v2/data-hr-15min-obj-lvl-acr<br>• POST /gateway/order/v2/data-hr-15min-mtr-lvl-acr |
| 1.0.25 | 2026-04-24 | • Introduced JSON request logic versioning:<br>  ○ Introduced JSON request logic version 2.<br>  ○ Revised the JSON request logic version 1 documentation (editorial updates only).<br>• Introduced a new Meter Controller with the following endpoint:<br>  ○ POST /gateway/meters/search<br>• Introduced a new Notification NRT Controller with the following endpoints:<br>  ○ GET /gateway/notification/nrt/limits<br>  ○ POST /gateway/notification/nrt/bulk<br>  ○ POST /gateway/notification/nrt/search<br>  ○ POST /getaway/notification/{notificationId}/nrt/cancel |
| 1.0.26 | 2026-05-15 | Added new endpoints under the existing Order controller:<br>• POST /gateway/order/nrt-charged-meters<br>• GET /gateway/order/{orderId}/nrt-charged-meters |
| | | Added the request attribute consentSign and error code 32 to the API endpoint:<br>• POST /gateway/notification/nrt/bulk |
| | | Introduced a new KPI NRT controller with the following endpoints:<br>• GET /gateway/kpi/nrt/quarterly |

| | | |
|---|---|---|
| | | • GET /gateway/kpi/nrt/daily |
| 1.0.27 | 2026-05-27 | Delta Interval Reading Service recommendations extended to support both standard and NRT (Near real-time) data processing using the same messaging-based mechanism. |
| 1.0.28 | 2026-06-19 | Added a new Metric Controller with endpoint:<br>• POST /gateway/metrics/search |
| | | Added new statistic name entries to the Notification Service in API endpoint GET gateway/statistic/list:<br>• NRT_ENABLE_COUNT<br>• NRT_DISABLE_COUNT<br>• NRT_AUTO_DISABLE_COUNT<br>• NRT_CHARGED_METERS_COUNT |
| | | Added recommendations for the usage of metrics and statistics. |
| 1.0.29 **Note: subject to change.** *The scope of this version may change depending on the final provisions of the law adopted by the Seimas.* | 2026-10-05 | • The validation logic for error codes 111 and 113 has been updated. Error codes 220, 221, and 222 have been added to the API endpoint **POST /gateway/notification/v2/contract**. |
| | | • A new attribute expressTariffPlanChangeAvailable has been added to the API endpoint **POST /gateway/object/v3/my/active/list**.<br>• A new attribute expressSupplierChangeAvailable has been added to the API endpoint **POST /gateway/object/v3/all/active/list**. |
| | | • The validation logic for error code 302 has been updated. Error code 346 has been added to the API endpoint **POST /gateway/notification/v2/contract/tariff-plan**. |
| | | • Added a new API endpoint **POST /gateway/notification/v3/contract/tariff-plan**.<br>• A new attribute tariffPlanChangeType has been added to the API endpoint **POST /gateway/notification/v3/contract/tariff-plan/list**. |
| 1.0.30 | 2026-10-23 | Added new attributes to the **GET /gateway/order/{orderId}/bill-bss-b2b** API endpoint:<br>• gridSuppliedElectricityViapQuantity<br>• gridSuppliedElectricityViapUnit<br>• gridSuppliedElectricityViapPriceExclVAT<br>• gridSuppliedElectricityViapAmountExclVAT |

| | | |
|---|---|---|
| | | Added new attributes to the **GET /gateway/order/{orderId}/bill-bss-b2c** API endpoint:<br>• gridSuppliedElectricityViapQuantity<br>• gridSuppliedElectricityViapUnit<br>• gridSuppliedElectricityViapPriceExclVAT<br>• gridSuppliedElectricityViapPriceInclVAT<br>• gridSuppliedElectricityViapAmountExclVAT<br>• gridSuppliedElectricityViapAmount<br>• gridSuppliedElectricityViapAmountIncludesVAT |
| 1.0.31<br>**Note:** Version 1.0.31 continues the changes introduced in version 1.0.29. | 2026-10-23 | Changed the notation used for validation rule parameters from [] to {}. As a result, dynamic values in validation messages are no longer enclosed in square brackets. Affected endpoints:<br>• POST /gateway/notification/v2/contract/tariff-plan<br>• POST /gateway/notification/v3/contract/tariff-plan |

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

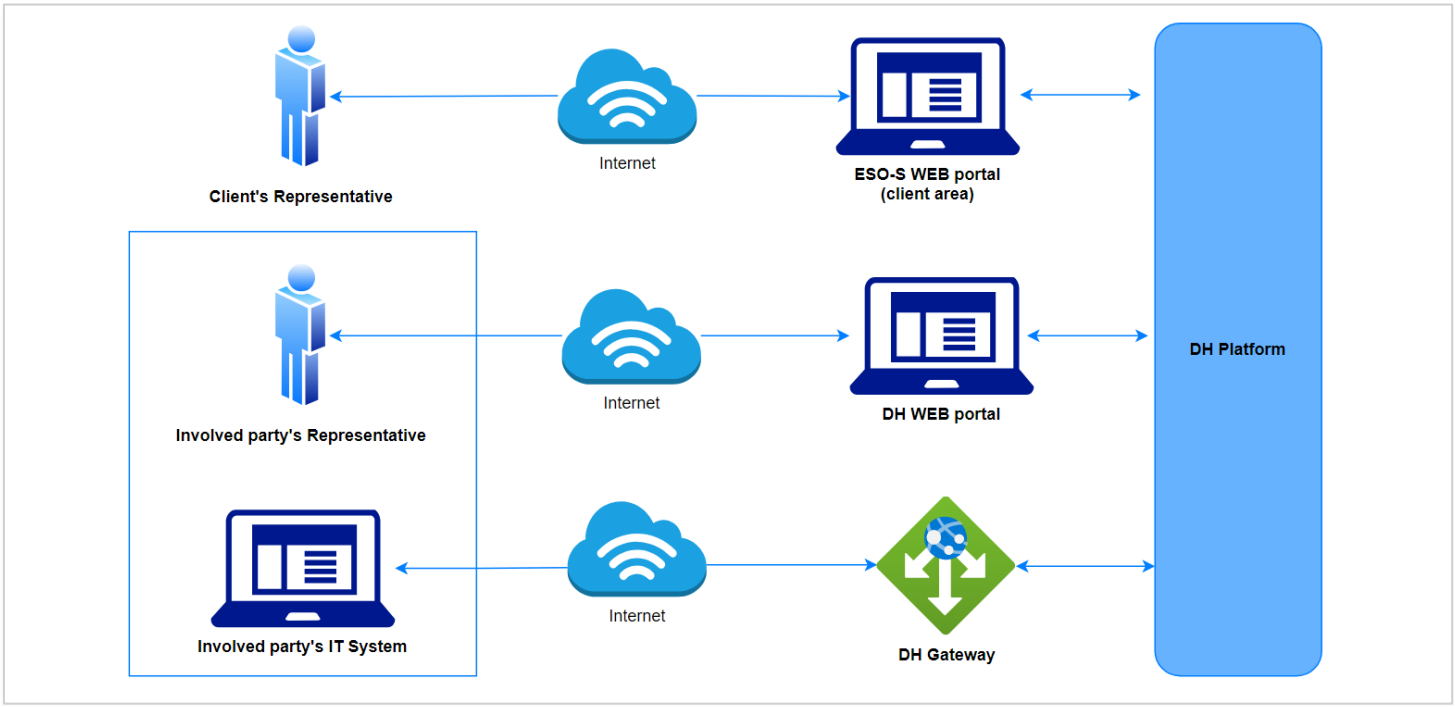
# 2. Preface

The Common Data Exchange Platform (hereinafter referred to as DH Platform) Gateway is a component enabling independent electricity suppliers to directly access the DH Platform from within their IT systems, thus helping to automate the following business processes:

- Obtaining electricity consumption history data for the purpose of providing commercial proposals to potential clients, including residential and industrial electricity consumers.
- Providing information to the Distribution System Operator about new contracts with clients who have switched suppliers.

The DH Gateway provides open standards-based interfaces, allowing independent suppliers to integrate their IT systems with the DH Platform, either by themselves or with outside assistance.

This document provides technical information on DH Gateway interfaces, which is needed to integrate suppliers' information systems with the DH Platform.


Client's Representative
Internet
ESO-S WEB portal
(client area)
DH Platform
Involved party's Representative
Internet
DH WEB portal
Involved party's IT System
Internet
DH Gateway

# 3. Definitions and abbreviations

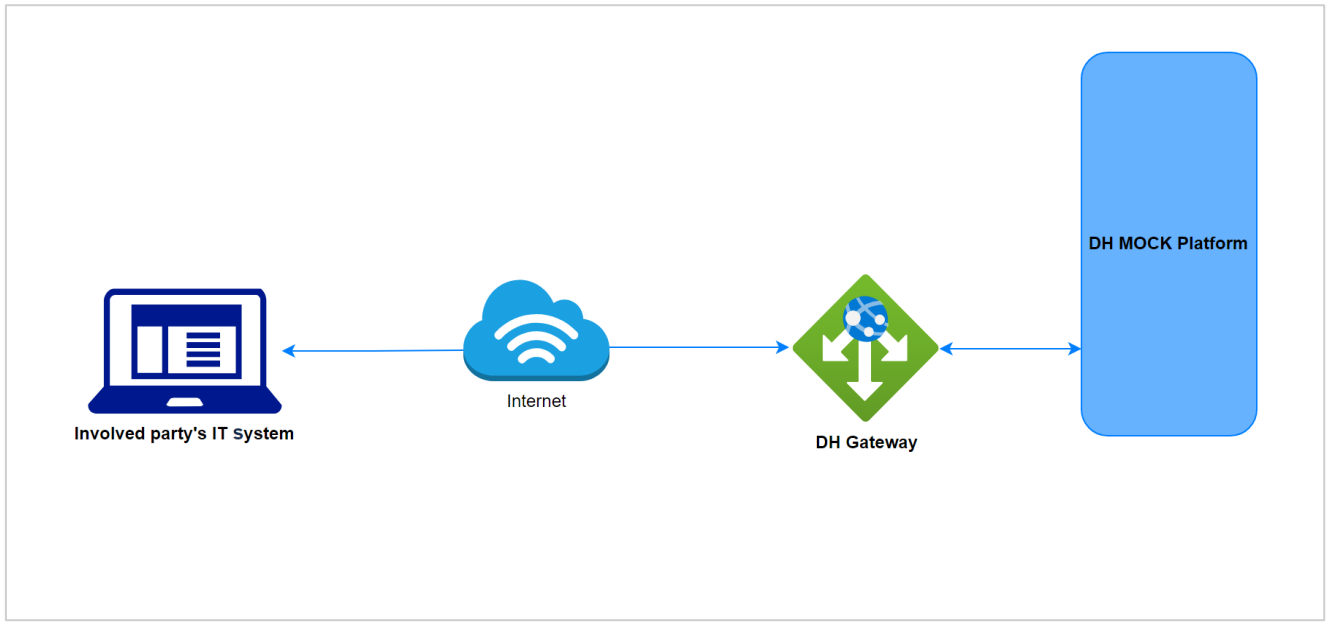
| Definition / abbreviation | Description |
|---|---|
| DataHub, DH, DH Platform | Common Data Exchange Platform. |
| DH Gateway | A component of the DH Platform that enables independent supplier's IT systems to directly access the platform and achieve a higher degree of process automation. |
| API | Application Programming Interface |
| Client | A household or legal entity using electricity for the needs of the household or business. |
| Client's Representative | A household person or their representative, or a representative of a legal entity (e.g., an employee of a legal entity). |
| DSO, ESO | Energy distribution system operator – AB „Energijos skirstymo operatorius". |
| Object | A site where electricity consumption takes place. |
| Supplier | Independent electricity supplier. |
| Supplier's Representative | An employee of an independent electricity supplier representing the supplier. |
| Value "N" | No |
| Value "Y" | Yes |
| KPI | Key Performance Indicators |
| NRT | Near-real time |
| PSO (Public Service Obligation) | Public interest service obligation in the electricity sector. |

# 4. Environments

There are two DH Gateway environments the supplier might access:

- Sandbox environment
- Production environment

The DH Sandbox environment consists of a Mock API Gateway with mock requests and responses (scenarios). There is no connection to a database or any data source; all possible requests and responses are hard coded into the mock API source code and do not have any data selection logic or rules. This data is real, depersonalized data from DSO customers. Sandbox request and response scenarios will be provided in an additional document and should be used solely for preparation to integrate with the DH production API environment or for testing purposes.



The DH platform also has a web interface, which is connected to the DH Production Gateway. All environments are provided in the table below:

| Environment | Swagger Link | WEB Interface |
|---|---|---|
| Production | https://dh-api.eso.lt/swagger-ui.html | https://datahub.eso.lt/ |
| Sandbox | https://dh-sandbox-api-v2.eso.lt/swagger-ui/index.html#/ | |

# 5. Suppliers’ digital certificates

In both the sandbox and production environments of the DH Gateway component, the identity of the supplier is established using a TOKEN, which the supplier's information system must provide each time the DH Gateway network service is called.

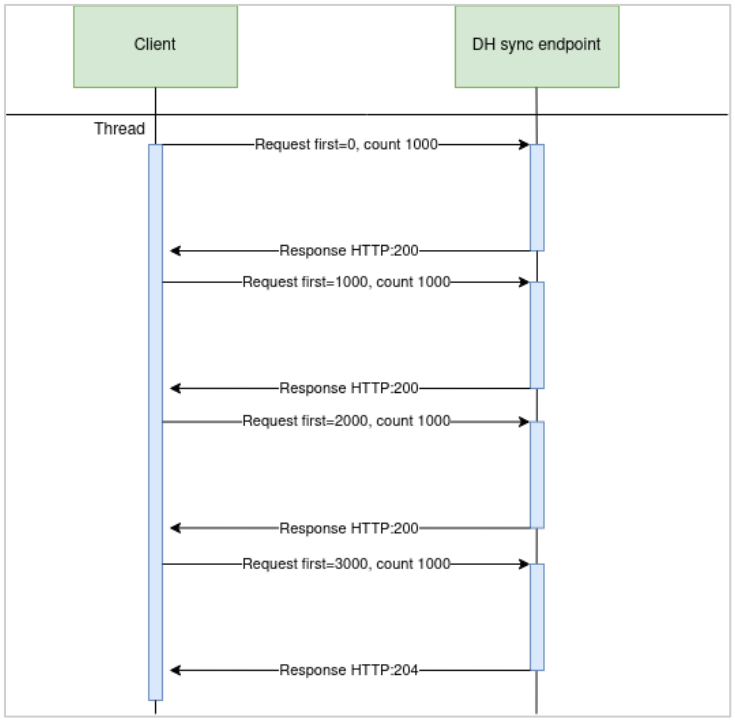
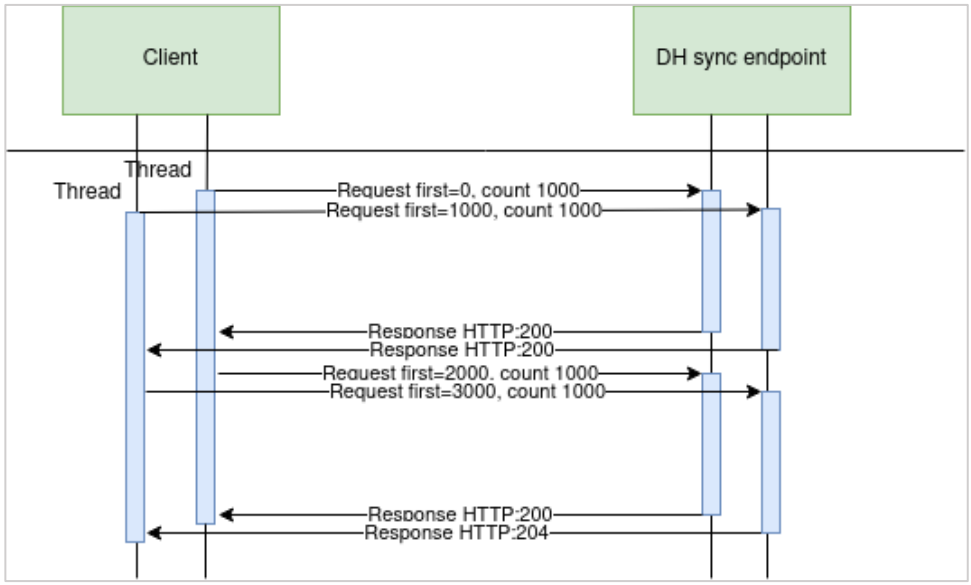
**To get started:**

1. The DSO responsible person sends the JWT key (JSON Web Token) to be used with each request to the DH API.
2. To make requests to the DH Gateway API, the TOKEN submission in the case of curl takes place.

```
curl --location {Production / sandbox environment + selected method url}
--header 'Authorization: Bearer {'key_received_from_DSO'}
```

# 6. Recommendation for API client

## 6.1 SYNC

| Sequential approach with pagination | Parallel approach with pagination |
|---|---|
| Should be default option | This method can be used when the import time is not reasonable. However, parallel requests should be limited. |
|  |  |





Recommendations for DH client:

1. Parameter for page size control.
2. Parameter for parallel thread amount control.
3. Sequential processing should be the default, but if import takes too much time, parallel processing can be used with a maximum of 3 threads.
4. Page size can be calculated by formula PS = PST/THRA, where PS is the page size, PST is the page size with which the request takes less than 15 seconds to execute, and THRA is the thread amount. However, the page size should not exceed 10,000 records.
5. Retry on HTTP statuses: 429, 5xx.
6. Retry should restart the failed request only (not the whole import process).
7. Retry interval should be no less than 5 seconds.
8. The import process should be able to continue after a failure.

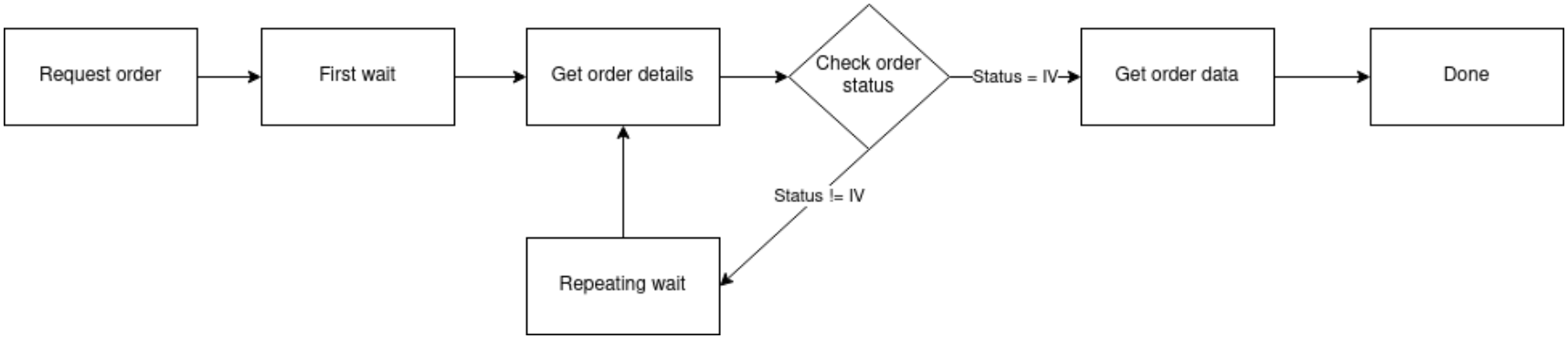
Motivation to have these features:

1. Performance issues can arise accidentally and solving them can take some time. During performance problems, controlling page size and thread amount can help.
2. DH has planned and unplanned deployments, and there can also be incidents during which DH services might be unavailable. In this case, it is beneficial for the client side to have a fallback process that retries failed requests and continues the process once the service becomes available again.
3. In the future, throttling by independent supplier will be introduced, and some of the requests could end up with HTTP status 429 (too many requests). Therefore, a retry process will also be helpful in this scenario.

## 6.2 ASYNC

Async pattern is mainly used for data orders: https://dh-api.eso.lt/swagger-ui/index.html?urls.primaryName=independent-supplier#/order-controller

The client side should implement the following process with these steps:




Step descriptions

| Step name | Description | End-point | Request / Response body |
|---|---|---|---|
| Request order | Submit a new data order. The request will return an order ID, which will be used in subsequent steps to retrieve order details and order data. | POST /gateway/order/**yyyyyyyyyy**<br><br>where **yyyyyyyyyy** is order type:<br>• report-obj<br>• report-obj-acr<br>• bill-2s2s-b2b<br>• bill-bss-b2c<br>• and other types of orders… | POST /gateway/order/v3/report-obj-acr<br><br>**Request body**<br>{<br>"objectNumbers": ["11111111111", "2222222222"]<br>}<br><br>HTTP status code 201<br><br>**Response body**<br>{<br>"orderId": 10000001<br>} |
| First wait | Wait for a period of time after submitting the order.<br>This step is necessary because the order processing takes some time, and there is no reason to check the status immediately after submission.<br>The initial wait duration depends on the order type and parameters. If the order collects more data, it can take several minutes to prepare.<br>For duration recommendations, refer to section Recommendations. | | |
| Get order details | Request the order details. This request is necessary to obtain the latest status of the order, which is stored in the "latestStatus" field.<br><br>Possible meanings for "latestStatus": | POST /gateway/order/v2/list | POST /gateway/order/v2/list<br><br>**Request body**<br>{<br>"orderId": 10000001 |

| | | | |
|---|---|---|---|
| | • P - Submitted order<br>• V - Order in progress<br>• IV - Order is finished and data are prepared<br>• K - Order has errors | | } |
| | | | HTTP status code 200<br><br>**Response body**<br>[<br>{<br>"orderId": 10000001,<br>"auto": false,<br>"dateFrom": "2023-04-17",<br>"dateTo": "2023-04-17",<br>"expireDate": "2023-04-18T14:31:27.990Z",<br>"latestStatus": "V",<br>"orderParameters": "{\"objectNumbers\": [\"11111111111\",\"2222222222\"]}",<br>"orderType": "report-obj-acr",<br>"statusDate": "2023-04-17T14:31:27.990Z",<br>"submittedDate": "2023-04-17T14:31:27.990Z",<br>"userName": "PUBLIC"<br>}<br>] |
| Check order status | Perform a logic operation to check the value of the “latestStatus” field. If the value equals 'IV', it means the order data is prepared. Otherwise, the order data is not ready, and the algorithm should proceed to the “Repeating wait” step. | | |
| Repeating wait | Wait for a period of time after checking the order status if the status is not equal to 'IV'. This step is necessary to prevent unnecessary load on the DH | | |

| | | | |
|---|---|---|---|
| | system caused by repetitive status checks without waiting.<br>For duration recommendations, refer to section Recommendations. | | |
| Get order data | Get order data.<br>**Note:** If the order contains too much data, pagination should be used. The default and maximum page size is 10,000 records (usually objects).<br>How to get data described in Sync. | GET /gateway/order/**zzzzzzzz**/**yyyyyyyyyy**?first=**oooooo**&count=**ssssss**<br>Where:<br>• **zzzzzzzz** is order Id<br>• **oooooo** is offset position<br>• **ssssss** is page size<br>• **yyyyyyyyyy** is order type:<br>  • report-obj<br>  • report-obj-acr<br>  • bill-2s2s-b2b<br>  • bill-bss-b2c<br>  • and other types of orders… | GET /gateway/order/10000001/report-obj-acr?first=0&count=10000<br>**Response body**<br>HTTP status 200<br>If order content is empty get method will return HTTP status 400 with message:<br>{<br>"code": 2018,<br>"text": "There is no data for the selected search parameters, the response is empty."<br>} |

### 6.2.1 DH order processing retry policy

If any issues arise during the order data processing stage, the process stops, and the order receives the status K. DH applies a retry policy for all orders with status K.

- Retries order process after 5 minutes.
- Retries order process 300 times.
- For failed orders, the retry policy will be active for a total of 25 hours (5 minutes * 300).
- The retry policy will stop working after 25 hours, and the order will remain with status K.

This is necessary because issues can arise during the data preparation stage for several reasons:

- DH technical problem – for example, one of the DH integrations was down, a contract was changed, data integrity violations occurred, etc.
- Incompatible business logic – for example, the order encountered an undefined use case, and the use case should be adapted to the order.

In most cases, the order processing retry will solve the problem. However, there are instances, such as “Incompatible business logic”, where additional human interaction is needed to complete the order. We are tracking such orders and fixing them, but this process might take several hours or even days. Therefore, some orders might not be completed and will remain in status K.

### 6.2.2 Order status flows

There are three possible order status flows:

| Flow | Description |
|---|---|
| P → V → IV | This is normal status flow. |
| P → V → K → IV | This is the flow when issues appear during data preparation, but the problem was later fixed. |
| P → V → K | This is the flow when issues appear during data preparation and the problem was not fixed within the DH retry policy time. |

Order execution duration depends on multiple factors:

- Order type – different order types use different integration services; some are faster, while others are slower.
- Order parameters – order parameters describe how much data will be generated. Larger order periods and greater object quantities will take longer to generate.
- Order quantity in queue – if a third party creates too many orders, they will be generated in parallel and will take more time to complete.
- Failures – errors during order data preparation will trigger the retry policy, causing order generation to take longer than usual. Sometimes, the order may not be generated at all.

### 6.2.3 Recommendations

1. For better performance, the "Request order" can be implemented as a separate process that is capable of creating multiple orders.
2. For better performance, the "Get order details" can be implemented as a separate process capable of retrieving details for multiple orders.
3. For better performance, the "Get order data" can be implemented as a separate process capable of retrieving data for multiple orders.
4. For better performance, process parallelization can be used, but with a maximum of 3 threads.
5. Any HTTP request which returns 5xx status can be retried.
6. Any HTTP request which returns a 4xx status should stop the process because it indicates a business error that requires manual handling. An exception is the step “Get order data” with error “code”: 2018, "text": "There is no data for the selected search parameters, the response is empty". This means that order data preparation is finished, and the order is empty.
7. Step “Request order” and other steps should have separate retries. A failure in “Get order data” should not trigger “Request order” to be retried.
8. It is up to the client to decide the duration of the "First wait", but it should not be less than 1 second.
9. It is up to the client to decide the duration of the "Repeating wait", but it should not be less than 1 second.

10. Use a fixed number of attempts for status checks. After 25 hours, the DH order retry policy will stop working, and the order will remain in status K. Therefore, it is reasonable to set the number of attempts to ((25 hours) / ("Repeating wait" duration in hours)).
11. Do not recreate orders when an order has status K. The DH retry policy will attempt to generate it later, or a DH team member's interaction will be needed to complete the order. Client-side solutions will not resolve status K.
12. For the step "Get order data" use Sync.

## 6.3 JSON request logic

### 6.3.1 Differences between Version 1 and Version 2

| Area | Version 1 | Version 2 | New in Version 2 |
|---|---|---|---|
| Default behavior | Applied when no version is specified | Applied only when explicitly specified | |
| Input validation strictness | More tolerant | Stricter input validation | ✅ |
| null values in list-type fields | Accepted; an empty result is returned | Rejected; a validation error is returned | ✅ |
| Mixed null and valid values in lists | Accepted; an empty result is returned | Rejected; a validation error is returned | ✅ |
| Empty strings in list-type fields | Accepted; an empty result is returned | Accepted; an empty result is returned | |
| Enum list validation | Not validated | Validation error if a value is not among allowed enum values | ✅ |
| Invalid value format (e.g. wrong type) | Validation error | Validation error | |
| null value for a field | No filtering is applied | No filtering is applied | |
| Overall behavior | Backward-compatible, tolerant | Predictable, explicit, and strict | ✅ |

The following table describes JSON field usage in requests by type.

### 6.3.2 Version 1 (Default)

If no version is specified in the request, Version 1 is applied by default.

| Type | Example | Is value provided | Request result |
|---|---|---|---|
| integer | contractObjectBsId: null | N | All objects are returned. |
| integer | contractObjectBsId: 4587125 | Y | The object with contract object ID 4587125 is returned. |
| integer | contractObjectBsId: "" | Y | Framework validation error because the provided value does not match the Integer format. |
| dateTime | contractStart: null | N | All objects are returned. |
| dateTime | contractStart: "" | Y | Framework validation error because the provided value does not match the date format. |
| dateTime | contractStart: "2023-01-01" | Y | Objects with a contract start date greater than 2023-01-01 are returned. |
| string | personCode: null | N | All objects are returned. |
| string | personCode: "" | Y | An empty list is returned because a person with an empty person code does not exist. |
| string | personCode: "37878787878" | Y | Objects whose owner is the person with code 37878787878 are returned. |
| list | objectNumbers: null | N | All objects are returned. |
| list | objectNumbers: [] | Y | An empty list is returned because the provided objectNumbers list does not match any object numbers. |
| list | objectNumbers: [""] and objectNumbers: ["", ""] | Y | An empty list is returned because the provided objectNumbers list does not match any object numbers. |
| list | objectNumbers: [null] or objectNumbers: [null, null] | Y | An empty list is returned because the provided objectNumbers list does not match any object numbers. |
| list | objectNumbers: ["56545654"] and objectNumbers: ["56545654", "76545654"] | Y | Objects with numbers 56545654 or 76545654 are returned. |

| Type | Example | Is value provided | Request result |
|---|---|---|---|
| boolean | hasAutoMeters: null | N | All objects are returned because no filtering criteria is applied. |
| boolean | hasAutoMeters: "" | Y | Validation error because an invalid Boolean value is provided. |
| boolean | hasAutoMeters: "NOT BOOLEAN" | N | Validation error because an invalid Boolean value is provided. |
| boolean | hasAutoMeters: "true" | Y | Objects with automated meters are returned. |

If a field value is not provided, no filtering is applied and the full list is returned.

### 6.3.3 Version 2

| Type | Example | Is value provided | Request result |
|---|---|---|---|
| integer | contractObjectBsId: null | N | All objects are returned. |
| integer | contractObjectBsId: 4587125 | Y | The object with contract object ID 4587125 is returned. |
| integer | contractObjectBsId: "" | Y | Framework validation error because the provided value does not match the Integer format. |
| dateTime | contractStart: null | N | All objects are returned. |
| dateTime | contractStart: "" | Y | Framework validation error because the provided value does not match the date format. |
| dateTime | contractStart: "2023-01-01" | Y | Objects with a contract start date greater than 2023-01-01 are returned. |
| string | personCode: null | N | All objects are returned. |
| string | personCode: "" | Y | An empty list is returned because a person with an empty person code does not exist. |
| string | personCode: "37878787878" | Y | Objects whose owner is the person with code 37878787878 are returned. |
| string | userNameSearch: null | N | All records are returned. |
| string | userNameSearch: "" | Y | All records are returned. |

| Type | Example | Is value provided | Request result |
|---|---|---|---|
| string | userNameSearch: " " | Y | All records containing a space character (' ') are returned. |
| string | userNameSearch: "Name" | Y | All records containing the word "Name" are returned, ignoring case sensitivity (e.g., "john naMe suRName"). |
| list | objectNumbers: null | N | All objects are returned. |
| list | objectNumbers: [ ] | Y | An empty list is returned because the provided objectNumbers list does not match any object numbers. |
| list | objectNumbers: [""] or objectNumbers: ["", ""] | Y | An empty list is returned because the provided objectNumbers list does not match any object numbers. |
| list enum | orderTypes: [""] or orderTypes: ["", ""] | Y | Framework validation error because the provided value is not among the allowed enum values. |
| list | objectNumbers: [null] or objectNumbers: [null, null] or objectNumbers: [null, null, 56669] | Y | The application returns an error for any request containing null values in the list. A framework validation error occurs. |
| list | objectNumbers: ["56545654"] arba objectNumbers: ["56545654", "76545654"] | Y | Objects with numbers 56545654 or 76545654 are returned. |
| boolean | hasAutoMeters: null | N | All objects are returned because no filtering criteria is applied. |
| boolean | hasAutoMeters: "" | N | Validation error because an invalid Boolean value is provided. |
| boolean | hasAutoMeters: "NOT BOOLEAN" | N | Validation error because an invalid Boolean value is provided. |
| boolean | hasAutoMeters: "true" | Y | Objects with automated meters are returned. |

If a field value is not provided, no filtering is applied and the full list is returned.

## 6.4 Change notifications

Modules of change notification encompass all aspects of changed data in the DH Platform. Depending on the nature of the data changes, there are multiple notification types:

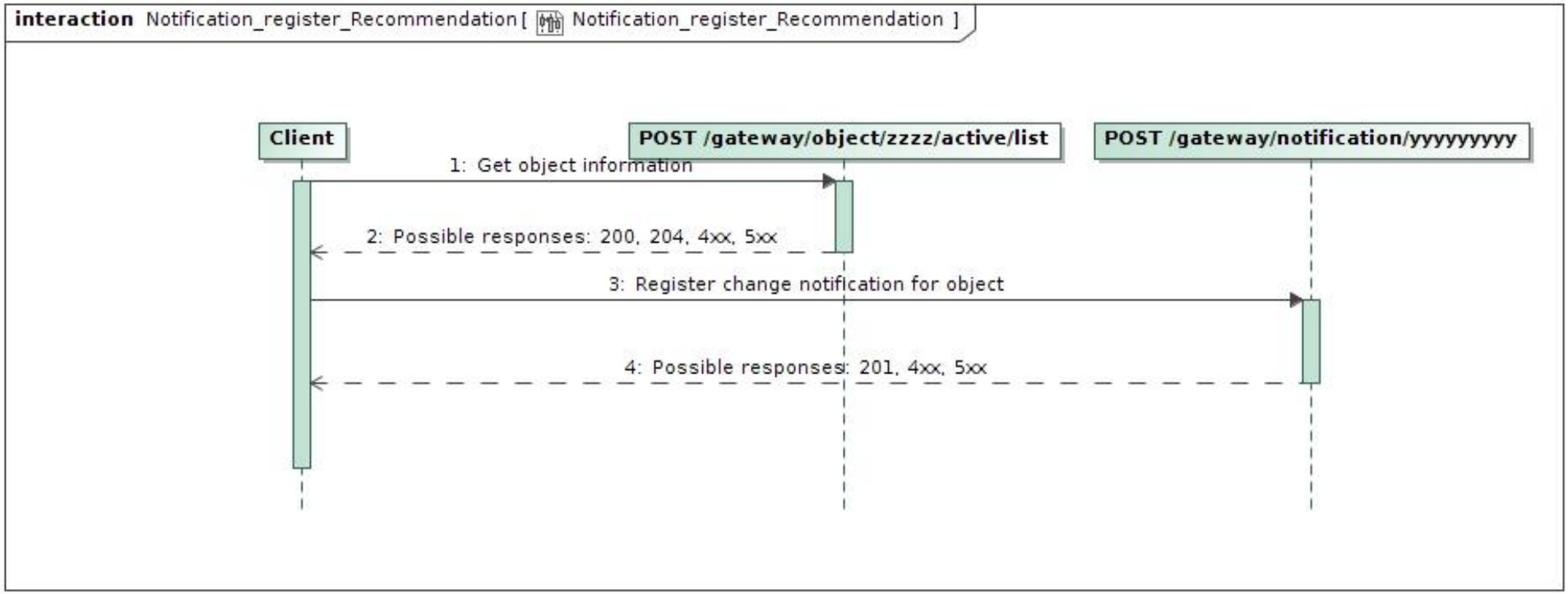
- Contract - for changing the contract object owner (SK), changing the independent supplier (NTK), or both (STK).
- Contract contact - for changing the contacts associated with a contract or a contract object.

- Contract object supply state - for disconnecting or connecting (changing the supply state).
- Contract tariff plan - for changing tariff plan.
- Contract termination - for terminating active contract.
- Notification cancelation - for cancelling previously created notifications that were already sent to the source system.

The main activities for all notifications are:

1. Registering notification.
2. Tracking status.
3. Cancelling notification.

### 6.4.1 Registering notification

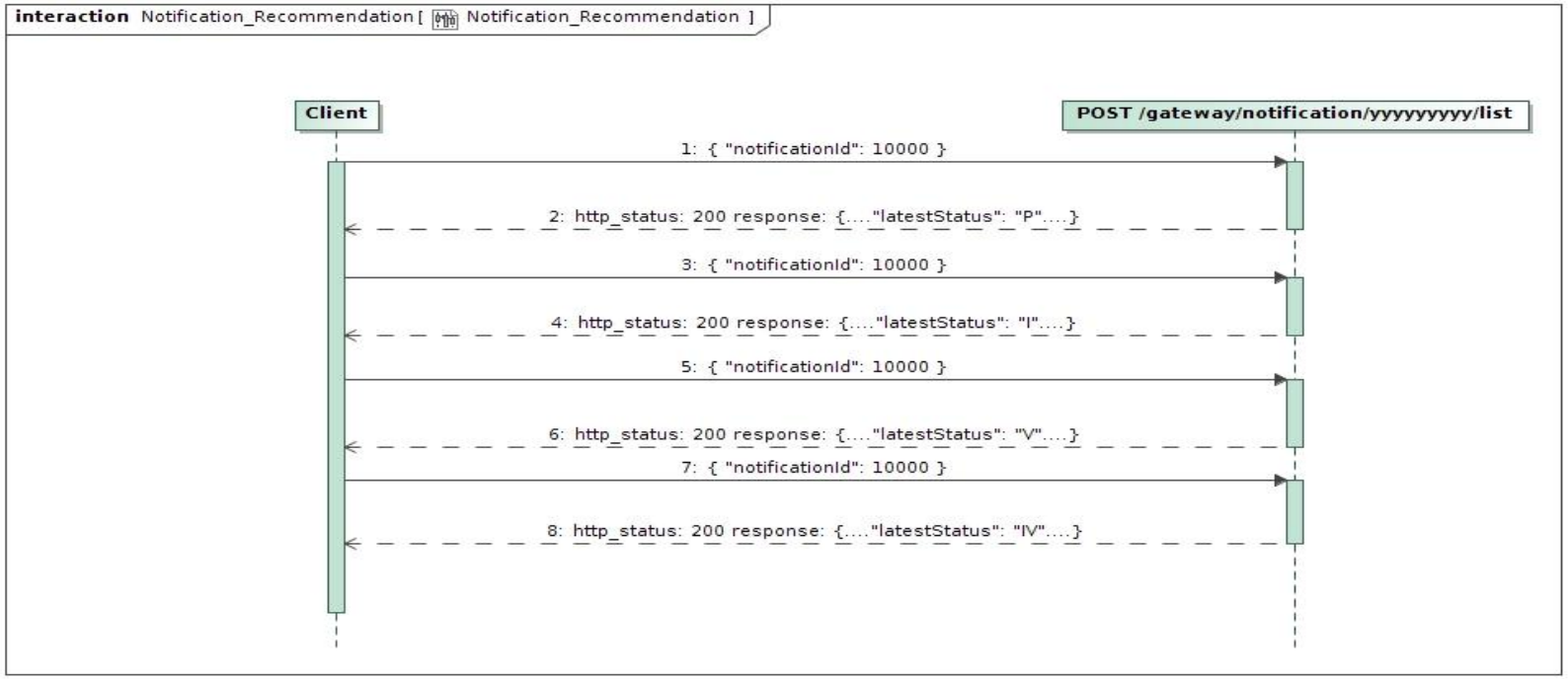



Some notes:

- zzzz - possible meanings are **[all, my]** depending on notification type.
- yyyyyyyyy - is any notification type like contract, supply-state, termination etc.
- For registering a change notification, some object information is needed. Therefore, it is reasonable to call the object list before creating and posting a change notification.
- It is possible to register one notification with one request.
- Mostly, one notification can contain multiple objects. All objects should belong to the same contract. However, in some cases, one notification can contain only one object. For example, a supply state notification always has one object.
- For getting object information, possible response HTTP statuses might be:
    - 200: When the object was found.
    - 204: When the object was not found.
    - 4xx: When there are authentication problems, or a business validation rule was violated.
    - 5xx: When there are service errors, such as the service being shut down for maintenance purposes.

- For registering a notification, possible response HTTP statuses might be:
- 201: When everything went well.
- 4xx: When there are authentication problems, or a business validation rule was violated.
- 5xx: When there are service errors, such as the service being shut down for maintenance purposes.

### 6.4.2 Tracking status




Possible status flow

- Happy status flow: P → I → V → IV
- Notification with cancellation: P → A
- Notification with error status flow: P → I → V → K
- Notifications that initially contained an error but were later fixed (this is not a common case): P → I → V → K → IV

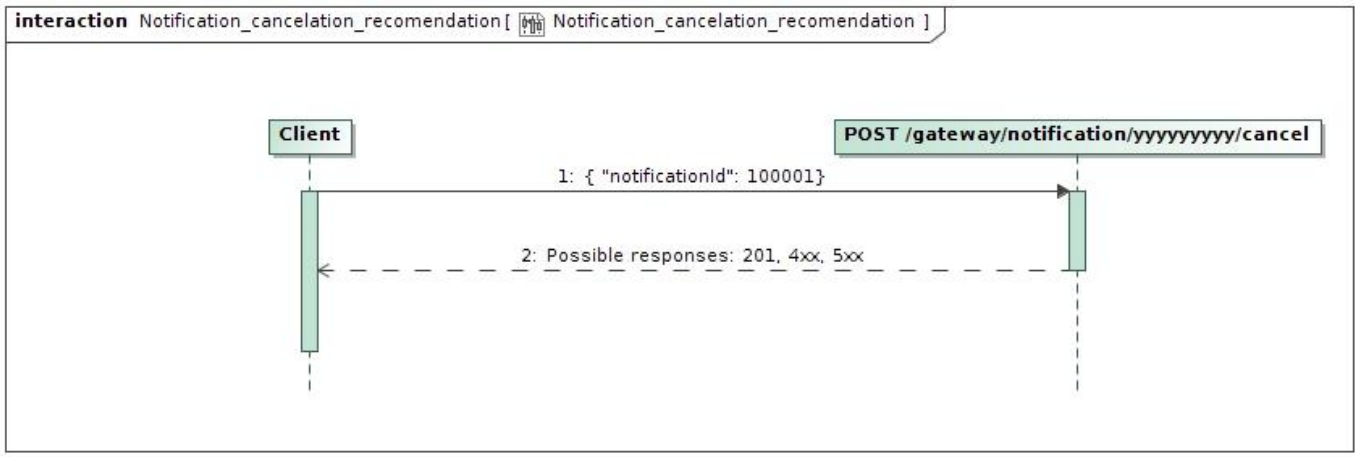
Notification statuses:

- P: Notification registered.
- A: Notification cancelled.
- I: Notification transferred to source system.

- V: Notification is in progress.
- K: Error occurred during notification processing.
- IV: Notification was successfully processed.

### 6.4.3 Cancelling notification

It is possible to cancel a notification within 1 hour after registration. After 1 hour, the notification is sent to the source system for processing, and cancellation is no longer possible.




Change notification endpoint mapping:

| Change notification endpoint | Change notification list endpoint | Change notification cancel endpoint | Object list |
|---|---|---|---|
| /gateway/notification/cancellation | /gateway/notification/v2/cancellation/list | /gateway/notification/{notificationId}/cancellation/cancel | /gateway/object/v3/my/active/list |
| /gateway/notification/v2/contract | /gateway/notification/v3/contract/list | /gateway/notification/{notificationId}/contract/cancel | /gateway/object/v3/all/active/list |
| /gateway/notification/contract/object/supply-state | /gateway/notification/v2/contract/object/supply-state/list | /gateway/notification/{notificationId}/contract/object/supply-state/cancel | /gateway/object/v3/my/active/list |
| /gateway/notification/v2/contract/tariff-plan /gateway/notification/v3/contract/tariff- | /gateway/notification/v3/contract/tariff-plan/list | /gateway/notification/{notificationId}/contract/tariff-plan/cancel | /gateway/object/v3/my/active/list |

| | | | |
|---|---|---|---|
| plan | | | |
| /gateway/notification/contract/termination | /gateway/notification/v2/contract/termination/list | /gateway/notification/{notificationId}/contract/termination/cancel | /gateway/object/v3/my/active/list |

## 6.5 Meter reading declaration

There are two main activities in meter reading declaration module.

1. Get the latest reading data.
2. Post new reading data.

### 6.5.1 Get the latest reading data

It is possible to get reading data in two ways:

1. Get all reading data or by objects.
2. Get reading data by changes.

In both approaches, you should use same endpoint **POST /gateway/declaration/v2/reading/list** but with different request bodies.

It is also possible to use **GET /gateway/supplier/v3/get-declaration-data** to get reading data by objects. However, this endpoint might be deprecated and removed in the future, so we do not recommend using it.

#### 6.5.1.1 Get all reading data or by objects

The simplest way to get reading data is by using the endpoint **POST /gateway/declaration/v2/reading/list** with an empty request body (if you want reading data for all objects) or by including "objectNumber" in the request body (if you want reading data for a specific object).

If the data does not fit into one response body, you should use pagination as described in the SYNC.

#### 6.5.1.2 Get reading data by changes

It is possible to use the same endpoint **POST /gateway/declaration/v2/reading/list** if you want to get object data that has undergone changes. For example, if an object has new declared readings or new meters, etc.

To retrieve these changes, you should use "cdcDateTimeFrom" and "cdcDateTimeTo" as shown in the sequence diagram below.




- If the response is not empty, an HTTP status 200 will be returned.
- If the response is empty, an HTTP status 204 will be returned.

Every call will give you a response with data in the following format:

**JSON response**


```
[
  {
    "objectNumber": "33041000",
    "cdcDateTime": "2023-06-05T14:45:07.540324+03:00",
    "meters": [
      {
        "conversionPoss": false,
        "meterNumber": "45150",
        "meterScaleLength": 14,
        "meterAutomated": true,
        "readings": null
      },
      {
        "conversionPoss": false,
        "meterNumber": "71000",
```

**JSON response**


```
      "meterScaleLength": 14,
      "meterAutomated": true,
      "readings": null
     }
    ]
  },
  {
   "objectNumber": "73010000",
   "cdcDateTime": "2023-06-05T15:00:10.803866+03:00",
   "meters": [
    {
     "conversionPoss": false,
     "meterNumber": "620000",
     "meterScaleLength": 7,
     "meterAutomated": false,
     "readings": [
      {
       "scaleId": 3199000,
       "scaleIdentifier": "VT",
       "scaleProduct": "VK",
       "readingFromDate": "2023-02-20T00:00:00",
       "readingMin": 7545,
       "readingFrom": 8145,
       "readingSource": "D"
      }
     ]
    }
   ]
  }
]
```


You will get changes in these cases:

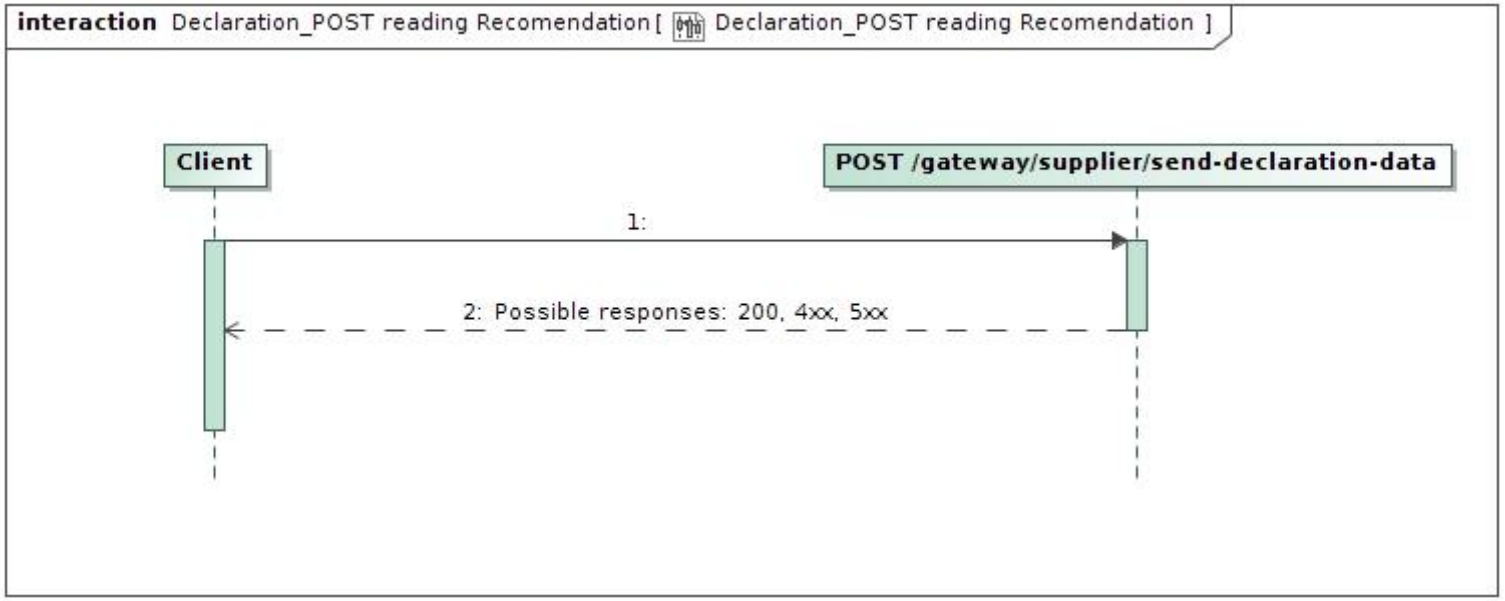
- New readings were declared.
- A new meter was added, or an old meter was removed.
- A meter was parameterized, and one of the parameters ("meterScaleLength", "scaleIdentifier", "scaleProduct") was changed.
- New independent supplier ownership started.
- A meter was changed from manual to automated. In this case, readings will not be provided and will have a value of null.

Note that:

- If the response contains more than 10,000 objects, you will need to use pagination as described in the SYNC.
- The time between "cdcDateTimeTo" and current_timestamp should be equal to or more than 2 hours. This is because DH sometimes receives data changes with some latency.
- There are no restrictions on the interval lengths for "cdcDateTimeFrom" and "cdcDateTimeTo". The example in the sequence diagram shows a request with 1-hour intervals, but it could also be 15 minutes, 4 hours, or 1-day intervals.
- For the initial load, a request with an empty body can be used.

### 6.5.2 Post new reading data

To declare new readings, you should use the endpoint: **POST /gateway/supplier/send-declaration-data**.



Request example:

**JSON request body**


```
[
  {
    "dataWriteDate": "2023-06-05T14:33:50.730Z",
    "objectNumber": "73010000",
    "readings": [
      {
        "reading": [
          {
            "conversion": false,
            "readingTo": 8170,
            "sklId": 3199000
          }
        ]
      }
    ]
  }
]
```


Few notes:

- You can declare multiple objects with one request, but a maximum of 1000 objects.
- You should declare all meters and all scales for a specific object at once; otherwise, an error will be returned.
- After declaration, it will take some time for the readings to become visible in **POST /gateway/declaration/v2/reading/list**. It takes some time to sync data between internal systems.

## 6.6 Access Rights

The access rights module is responsible for storing granted accesses to private data for involved parties (third parties, independent suppliers). An involved party that has obtained consent from a private person to access their private data should register this consent in the access rights module.

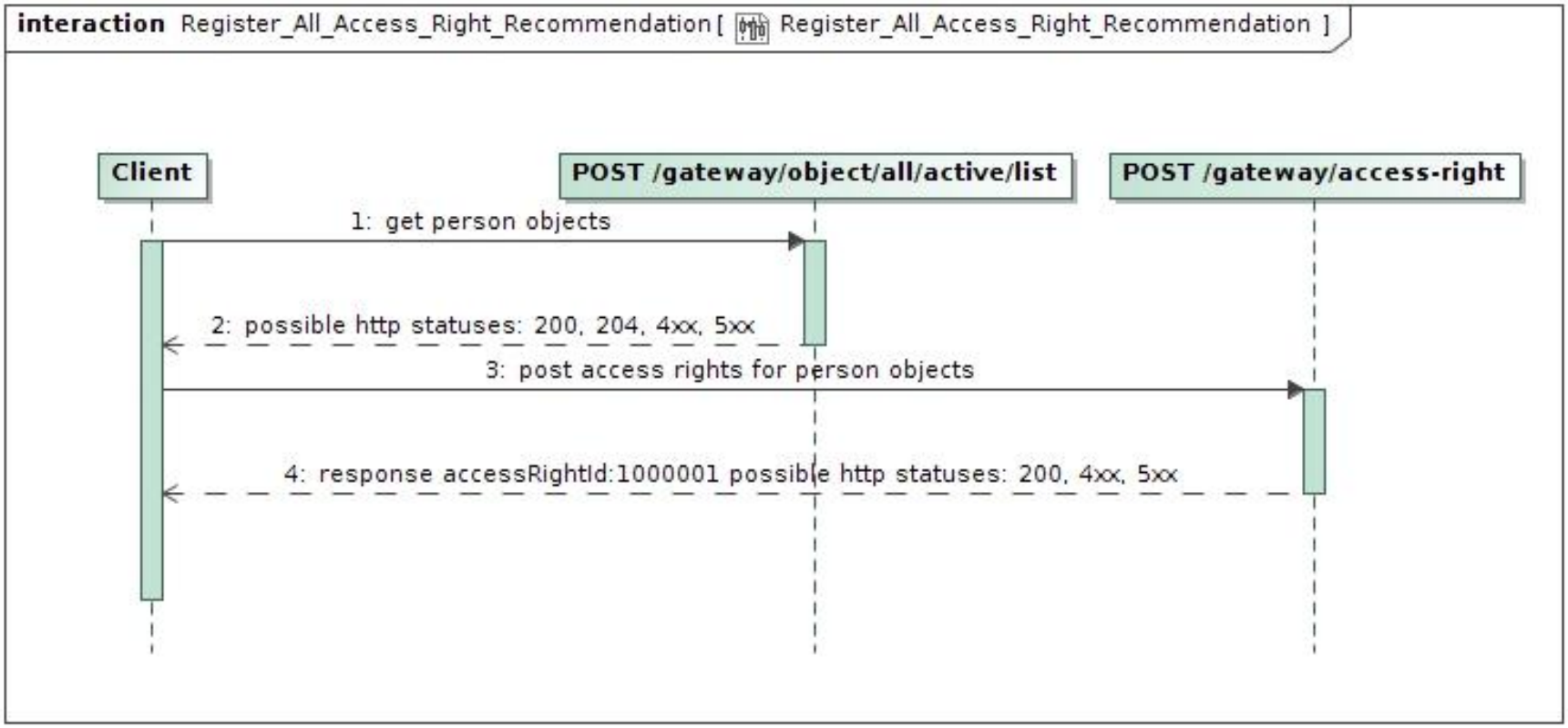
Activities that can be performed in the access rights module include:

- Registering access rights

- Retrieving list of all access rights
- Cancelling access rights

### 6.6.1 Registering access right

Registering access rights for objects.

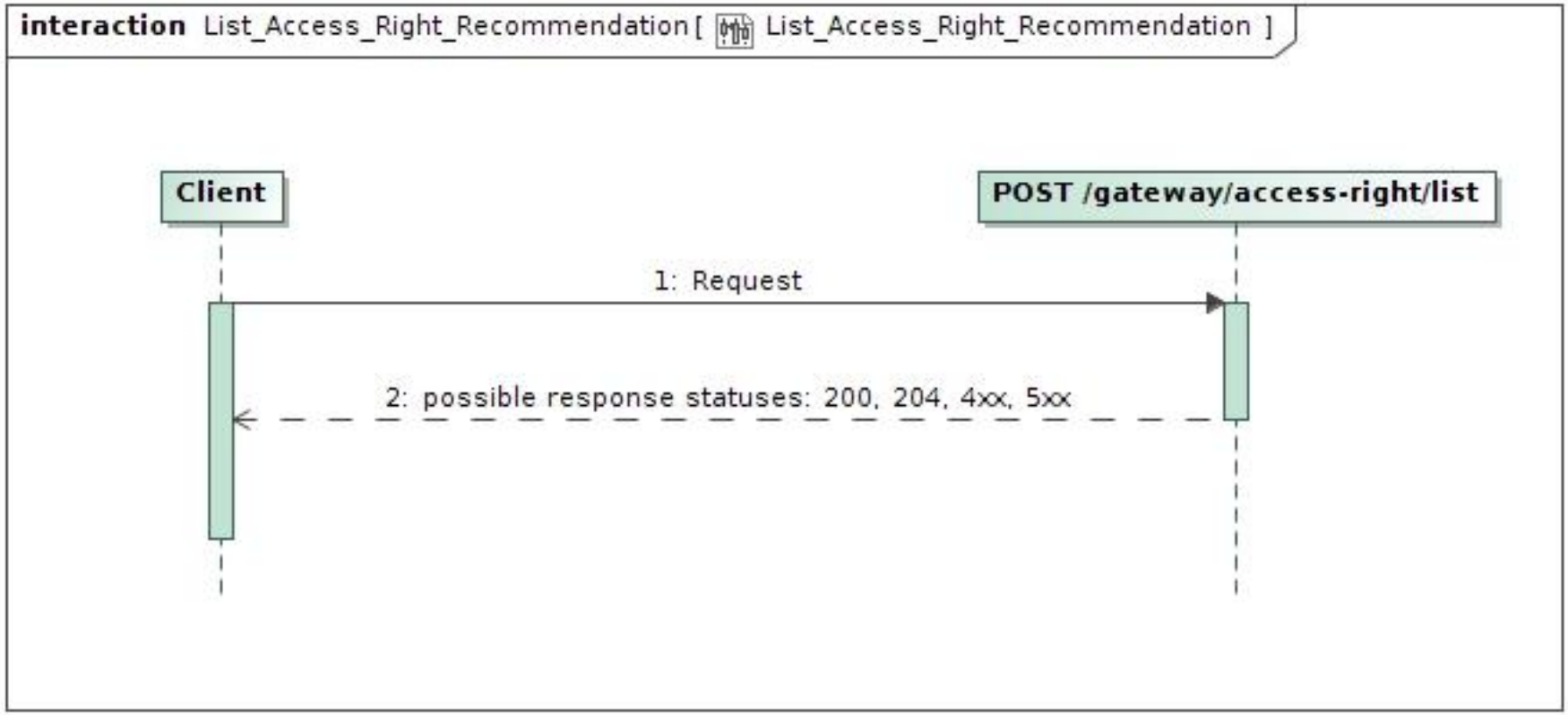



Notes:

- Access right is ordered at the person/company scope. With one request you can order access rights for multiple objects, but these objects must belong to same person/company.
- For optimal performance, it is recommended to include no more than 500 objects in a single access registration request. If access rights need to be registered for a larger number of objects, multiple requests should be submitted.

- When posting access rights, some object information is needed. Object information can be obtained from **/gateway/object/v3/all/active/list** endpoints.
- Everyone can retrieve data from the **/gateway/object/v3/all/active/list**, but before accessing this data, the object owner's consent must be obtained.
- Access rights for private person data can be ordered for a maximum period of 1 year only.
- Before registering an access right, you should obtain consent for the access right from the object owner.
- Access rights to an involved party can be granted directly by the object owner via the ESO-S system. Such an access right record will have the source ESOS.
- If the object's owner is changed, the previous access rights are automatically deleted.
- In the access rights module, object information remains the same as it was at the time of access right registration.
- HTTP 200 status indicates that the registration was successful.
- HTTP 4xx status indicates that a business rule was violated.
- HTTP 5xx status indicates that an unexpected server-side error occurred.

### 6.6.2 List all access rights



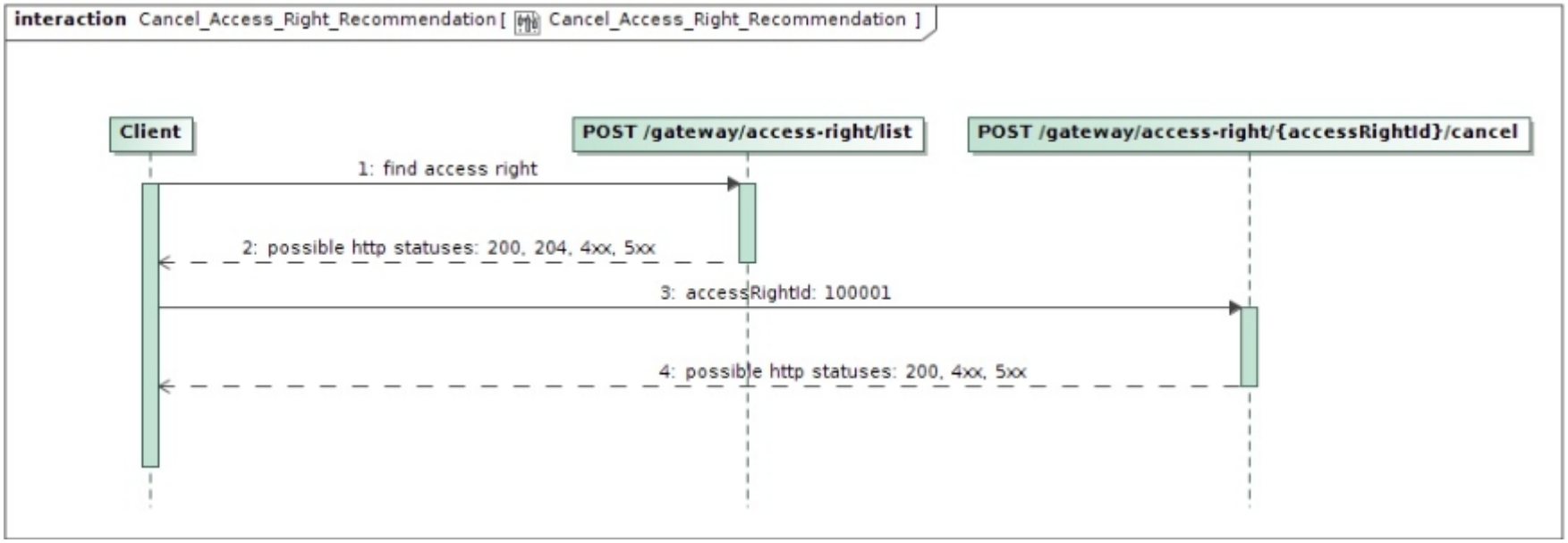
**JSON response**


```
{
  "accessRightId": 0,
  "accessRightSource": "ESOS",
  "accessRightValidFrom": "2022-01-01",
  "accessRightValidTo": "2022-01-01",
  "consumerCode": "string",
  "contractModel": "BSS",
  "contractType": "SBTS",
  "generatingObjectType": "G",
  "objectAddressSearch": "string",
  "objectNumber": "string",
  "personCode": "string",
  "powerPlantType": "A",
  "supplierType": "VT",
  "userNameSearch": "string"
}
```


Notes:

- Access right source can be: ESOS (when access right was registered via ESO-S system), DH (when access right was registered via DH system).
- Access right valid date from is a time when records was registered. With date time precision.
- Object can have only one active access right record. If we try to register access right for object which already has record, then active record will be updated.
- Access right object data is stored according to the newest owner. So, data search by old owner will give empty response.
- Http 200 status when response was successfully generated.
- Http 204 status when response was successfully generated, but content is empty.
- Http 4xx status when some business rule was violated.
- Http 5xx status when unexpected service side error occurred.

### 6.6.3 Cancelling access right




Notes:

- **Identify Access Right ID**: Before cancelling, you need to find the access right ID.
- **Single Request Cancellation**: Each cancellation request can handle only one access right.
- **Source Independence**: Cancellation can be done regardless of the source (DH or ESOS).
- **HTTP Status Codes:**
  - 200: Registration was successful.
  - 4xx: A business rule was violated.
  - 5xx: An unexpected server-side error occurred.

### 6.6.4 Access right integration with data order module

After access right registration, the involved party gains the ability to access private data. Private data can be accessed in the data order module, which is described in ASYNC.

Order types with suffix "-acr" require access rights. Currently:

- data-hr-15min-mtr-lvl-acr

- data-hr-15min-obj-lvl-acr
- data-sum-obj-lvl-acr
- report-obj-acr

## 6.7 "Net billing" process

"Net billing" process consists of three parts:

1. Getting "Net billing" bills
2. Getting "Net billing" prosumer graph
3. Correcting "Net billing" graph

### 6.7.1 Getting "Net billing" bills

This process describes how to obtain "Net billing" bills from the DSO.

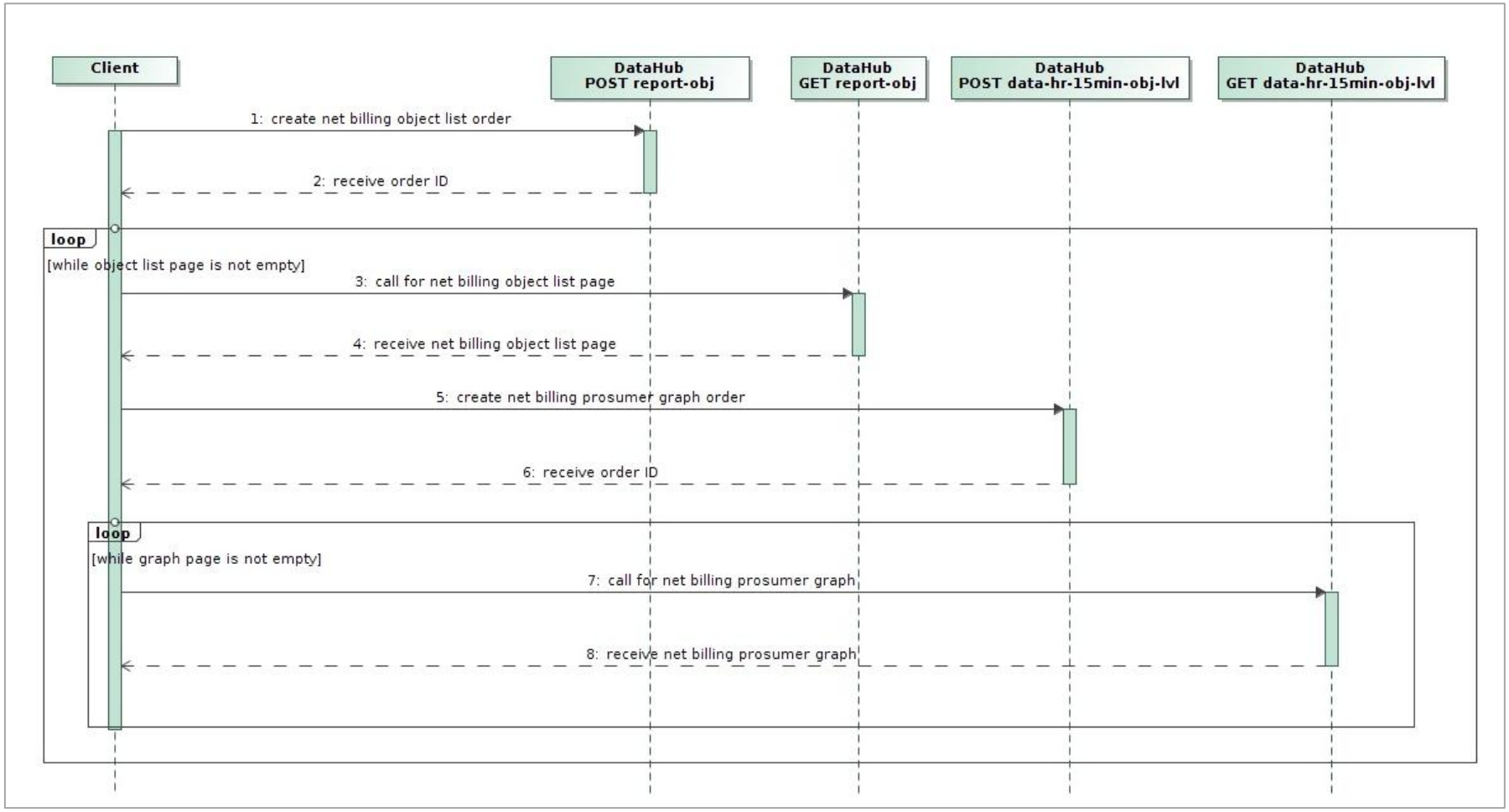
There are no significant differences between the current billing process and the "Net billing" process from the DH side. To obtain bills, the following steps should be followed:

- For model BSS and B2C
    - **POST /gateway/order/v2/bill-bss-b2c:** Use this endpoint to create an order for bills.
    - **GET /gateway/order/{orderId}/bill-bss-b2c:** Use this endpoint to retrieve bill data for a specific order.
- For model BSS and B2B
    - **POST /gateway/order/v2/bill-bss-b2b**: Use this endpoint to create an order for bills.
    - **GET /gateway/order/{orderId}/bill-bss-b2b**: Use this endpoint to retrieve bill data for a specific order.
- For model 2S2S
    - **POST /gateway/order/v2/bill-2s2s-b2b**: Use this endpoint to create an order for bills.
    - **GET /gateway/order/{orderId}/bill-2s2s-b2b**: Use this endpoint to retrieve bill data for a specific order.

Bills with "Net Billing" data will have an additional value "Grynasis atsiskaitymas" in the field "PaymentType" and will not include bill details rows about missing, accumulated, and paying recovery amounts.

### 6.7.2 Getting "Net billing" prosumer graph

This process includes obtaining a prosumer graph that details electricity consumption and generation. This graph will help suppliers calculate the electricity consumer's "Net billing" balance.



| Step | Name | Description | End-point | Request / Response example |
|---|---|---|---|---|
| 1 | Create an order for a list of "Net billing" objects | Create an order which prepares a list of “Net billing” objects | POST /gateway/order/v3/report-obj | **Request body**<br><br>{<br>"dateFrom": "2024-05-01",<br>"dateTo": "2024-05-31"<br>}<br><br>Where:<br><br>• dateFrom - the first day of billing period<br>• dateTo - the last day for billing period |
| 2 | Receive order ID | Step 1 will return order ID. | | **Response body**<br><br>{<br>"orderId": 1000000<br>} |
| 3 | Call for "Net billing" object list page | After successfully generating the object list, it should be read page by page.<br><br>**Note**:<br><br>• For more details on how to work with orders, refer to the Async section.<br>• For more details on how to use pagination, refer to the Sync section.<br>• The report-obj can generate multiple JSON entries for the same object due to owner changes, supply contract changes, or other reasons. Therefore, | GET /gateway/order/v3/{orderId}/report-obj<br><br>Where:<br><br>• {orderId} - Order ID from step 2<br>• header: first = 0<br>• header: count: 500<br><br>Recommended page size is 500, as this is the maximum size of the object list in the next steps | |

| | | | | |
|---|---|---|---|---|
| | | duplicates should be eliminated before step 4. | | |
| 4 | Receive "Net billing" object list page | To receive the object list for the "Net billing" process, objects with an accounting schema NET_BILLING will be needed. | | **Response body**<br><br>[<br>{<br>"objectNumber": "4565657",<br>.....<br>"powerPlantObjects": [<br>{<br>"accountingScheme": "NET_BILLING",<br>.....<br>}<br>],<br>.....<br>}<br>]<br><br>"Net billing" objects will have "accountingScheme": "NET_BILLING" |
| 5 | Create “Net billing” prosumer graph order | Create an order that will prepare a prosumer graph | POST /gateway/order/v2/data-hr-15min-obj-lvl | **Request body**<br><br>{<br>"consumptionCategories": [<br>"P+", "P-"<br>],<br>"dateFrom": "2024-05-01",<br>"dateTo": "2024-05-31",<br>"interval": "HOUR",<br>"netBilling": {<br>"intervalData": true,<br>"intervalDataDetailed": true,<br>"intervalDataRecalculation": false<br>},<br>"objectNumbers": [<br>"4565657", .....<br>]<br>} |

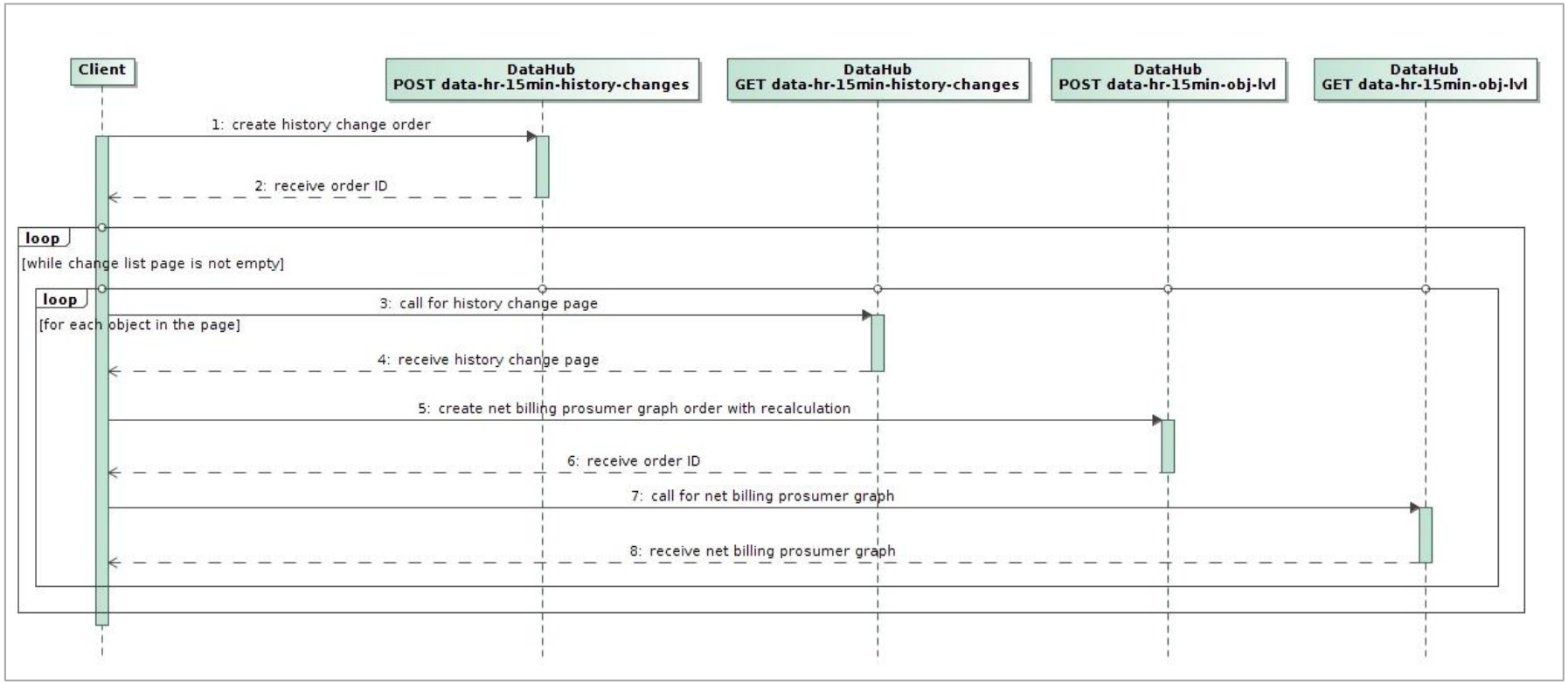
| | | | | |
|---|---|---|---|---|
| | | | | Where:<br><br>• consumptionCategory - possible meanings:<br>  ○ P+ for consumption graph.<br>  ○ P- for generation graph.<br>• dateFrom - the first day of billing period.<br>• dateTo - the last day for billing period.<br>• interval - possible meanings:<br>  ○ HOUR for hour graph.<br>  ○ QUARTER for 15-minutes graph.<br>• intervalData - should be true for "Net billing" process.<br>• intervalDataDetailed - possible meanings:<br>  ○ true - if needed generation graph detailed with power plants.<br>  ○ false - if needed common generation graph without details.<br>• intervalDataRecalculation - In this step, set this to false because we need to get the graph as it is at the current time.<br>• objectNumbers - list of object numbers from step 4. |
| 6 | Receive order ID | Step 5 will return order ID. | | **Response body**<br><br>{<br>"orderId": 1000001<br>} |

| | | | | |
|---|---|---|---|---|
| 7 | Call for "Net billing" prosumer graph | After successfully generating the "Net billing" prosumer graph, it should be read page by page.<br>**Note**:<br>• For more details on how to work with orders, refer to the Async section.<br>• For more details on how to use pagination, refer to the Sync section. | GET /gateway/order/{orderId}/data-hr-15min-obj-lvl<br><br>Where:<br>• {orderId} - Order ID from step 6.<br>• header: first = 0<br>• header: count: 10 | |
| 8 | Receive "Net billing" prosumer graph | Receive prosumer graphs.<br>**Note:** Usage type can be:<br>• **B - Billing**: This means that the final data version is captured from the DH side, and all subsequent changes to the data will be notified via the history change report data-hr-15min-history-changes. This is the recommended data status for "Net billing". Billing data will be captured and available:<br>  ○ From 00:00 AM on the 4th working day of each month.<br>• **D - Daily**: This means that the final version of data is not yet captured from the DH side and can be changed later without any notification. This type of graph can also be used for "Net billing" but requires an additional process from the client side. The client should periodically repeat steps from 1 to 8 for objects with usage type D until they receive usage type B. This process might be needed in cases when billing data could not be prepared on time from the DH side. | Recommended page size is 10, as the graph will be generated for the whole month and each object will contain a lot of data. | **Response body**<br><br>[<br>{<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "P-",<br>"consumptions": [<br>{<br>"amount": 45,<br>"consumptionTime": "2024-05-10T18:00:000",<br>"graphVersion": "2024-05-10T18:00:00.000",<br>"usageType": "B",<br>"valueType": "VAL"<br>}<br>],<br>"powerPlantObjectNumber": "45654654",<br>"powerPlantType": "A"<br>},<br>..... |

| | | | | |
|---|---|---|---|---|
| | | | | ],<br>"objectBsId": 0,<br>"objectNumber": "4565657",<br>.....<br>}<br>] |

### 6.7.3 Correcting "Net billing" graph

This process is about how to identify objects that might have changes in previous billing periods and how to renew graphs.



| Step | Name | Description | End-point | Request / Response example |
|---|---|---|---|---|
| 1 | Create history change order | Create an order that will prepare a list of "Net billing" objects which had data change events during the current billing period and these changes impacted previous accounting periods. | POST /gateway/order/data-hr-15min-history-changes | **Request body**<br><br>{<br>"dateFrom": "2024-05-01"<br>}<br><br>Where:<br>• dateFrom - the first day of billing period<br><br>**Note:** The report will find all events that impacted previous periods from dateFrom to the current time. |
| 2 | Receive order ID | Step 1 will return order ID. | | **Response body**<br><br>{<br>"orderId": 1000002<br>} |
| 3 | Call for history change page | After successfully generating the history change order, the object list should be read page by page<br><br>**Note**:<br>• For more details on how to work with orders, refer to the Async section.<br>• For more details on how to use pagination, refer to the Sync section. | GET /gateway/order/{orderId}/data-hr-15min-history-changes<br><br>Where:<br>• {orderId} - Order ID from step 2.<br>• header: first = 0<br>• header: count: 500 | |

| | | | | |
|---|---|---|---|---|
| 4 | Receive history change page | Receive an object list that has changes from previous billing periods, and the graph information can be recalculated and updated. If the result is empty, it means no changes were made in previous periods, and the current data is correct.<br><br>**Note:** The history change order will indicate which objects have changes, but it does not guarantee that these changes impact the 'Net billing' balance. The impact will be known after step 8, once a comparison between the old graph version and the recalculated version is done. | The recommended page size is 500 because this is the maximum size of the object list in the next steps. | **Response body**<br><br>[<br>{<br>"objectNumber": "4565657",<br>"periodsWithChanges": [<br>{<br>"billingPeriod": "2024-01",<br>"reasons": [<br>"GENERATION_CHANGE"<br>]<br>}<br>],<br>....<br>}<br>]<br>Where:<br>• objectNumber - The number of the object that has an impact on historical data.<br>• periodsWithChanges - A list of object periods that should be recalculated and updated because they have changes.<br>• Reasons – Change reasons. Possible meanings:<br>○ GENERATION_CHANGE (Indicates that the prosumer graph has updates).<br>○ OWNER_CHANGE (Indicates a retroactive owner change).<br>○ SUPPLIER_CHANGE (Indicates a retroactive supplier change).<br>○ SCHEMA_CHANGE **(**Indicates a retroactive accounting schema change). |

| | | | | |
|---|---|---|---|---|
| 5 | Create "Net billing" prosumer graph order with recalculation | Create an order to recalculate and prepare a new prosumer graph.<br><br>**Note:** An order with recalculation should be created separately for each object from step 4. | POST /gateway/order/v2/data-hr-15min-obj-lvl | **Request body**<br><br>{<br>"consumptionCategories": [<br>"P+", "P-"<br>],<br>"dateFrom": "2024-05-01",<br>"dateTo": "2024-05-31",<br>"interval": "HOUR",<br>"netBilling": {<br>"intervalData": true,<br>"intervalDataDetailed": true,<br>"intervalDataRecalculation": true<br>},<br>"objectNumbers": [<br>"4565657"<br>]<br>}<br>Where:<br>• consumptionCategory - possible meanings:<br>○ P+ (for consumption graph)<br>○ P- (for generation graph)<br>• dateFrom - the first day of billing period.<br>• dateTo - the last day for billing period.<br>• interval - possible meanings:<br>○ HOUR (for hour graph).<br>○ QUARTER (for 15-minute graph).<br>• intervalData - should be true for "Net billing" process.<br>• intervalDataDetailed - possible meanings:<br>○ true - if needed generation graph detailed with power plants.<br>○ false - if needed common generation graph without details. |

| | | | | |
|---|---|---|---|---|
| | | | | • intervalDataRecalculation - in this step should be true because we need to renew currently existing graph before extracting it.<br>• objectNumbers - objectNumber from step 4. |
| 6 | Receive order ID | Step 5 will return order ID. | | **Response body**<br><br>{<br>"orderId": 1000003<br>} |
| 7 | Call for "Net billing" prosumer graph | After successfully generating the "Net billing" prosumer graph, the graph should be read page by page.<br>**Note**:<br>• For more details on how to work with orders, refer to the ASYNC section.<br>• For more details on how to use pagination, refer to the SYNC section. | GET /gateway/order/{orderId}/data-hr-15min-obj-lvl<br><br>Where:<br>• {orderId} - Order ID from step 6.<br>• header: first = 0<br>• header: count: 10 000<br><br>The recommended page size is 10 000, which is the maximum size for an order page to retrieve the entire report in one request. The order will contain the graph for only one object. | |
| 8 | Receive "Net billing" prosumer graph | Receive prosumer graphs.<br><br>**Note:**<br>• For recalculated data, the usage type will be **B - Billing**.<br>• After recalculation, the newer graph version will be captured on the DH side, and the history change order will not show any changes for the recalculated object.<br>• It's up to the supplier how to use the recalculated data:<br>  • To create a dummy adjusting bill from the recalculated data and check if it matches the old bill. | | **Response body**<br><br>[<br>{<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "P-",<br>"consumptions": [<br>{<br>"amount": 45,<br>"consumptionTime": "2024-05-10T18:00:000",<br>"graphVersion": "2024-05-10T18:00:00.000", |

| | | | | |
|---|---|---|---|---|
| | | • To compare the old graph version with the recalculated one and then create an adjusting bill.<br>• The supplier also decides whether to create adjusting bills for customers who have already left the supplier. | | "usageType": "B",<br>"valueType": "VAL"<br>}<br>],<br>"powerPlantObjectNumber": "45654654",<br>"powerPlantType": "A"<br>},<br>.....<br>],<br>"objectBsId": 0,<br>"objectNumber": "4565657",<br>.....<br>}<br>] |

### 6.7.4 Usage Recommendations

**It is strongly recommended to include as many objects as the maximum allowed in a single request when requesting Net Billing data.** This is an important change from the previous behavior, where the number of objects per request had little impact on performance.

Going forward, performance will depend directly on the number of requests (orders) submitted. Fewer, larger requests will result in significantly faster data retrieval compared to many small ones.

For example, one request containing 100 objects will be processed much faster than 100 separate requests with a single object each.

## 6.8 Delta Interval Reading Service

### 6.8.1 Overview

The Delta Interval Reading service provides 15-minute electricity consumption and production data, enabling suppliers to access detailed and timely information about energy usage and generation.

The service provides standard (DELTA) data delivery, where data is typically available the next day, and supports near real-time (NRT) data delivery as an optional extension, providing more frequent updates closer to real time.

Data is delivered according to the **delta principle**, meaning that if any values change, updated consumption or production data for the same meter and time interval will be provided with the latest values.

Both data delivery approaches follow the same structure and are delivered using the common messaging-based mechanism.

### 6.8.2 Purpose

The Delta Interval Reading service is intended to replace the existing 15-minute electricity consumption and production report requests.

It enables more efficient data retrieval by returning only the newly available (delta) consumption and production data since the last request, thereby reducing data volume and system load.

Additionally, near real-time (NRT) data delivery complements the service by providing faster access to interval data and improved visibility into electricity consumption and production values, supporting near real-time monitoring. DELTA data should be used for more stable and finalized processing.

### 6.8.3 NRT Service Activation

NRT data delivery must be explicitly enabled and configured for meters where near real-time data is required.

**Activation requirements:**

- Signed contract for NRT service
- At least one meter configured for 15-minute (NRT) mode

To request and activate the NRT service for a meter, use the meter configuration API endpoint: POST /gateway/notification/nrt/bulk.

**Note:** NRT data will only be included in event responses for meters where the service has been activated.

### 6.8.4 Messaging API

The following endpoints are used to retrieve and download interval data.

#### 6.8.4.1 Available endpoints

**GET /gateway/messaging/events** - Retrieves a list of events within a specified time period.

Supported event types:

- DELTA_INTERVAL_READING - standard (typically next-day) delta updates.

- DELTA_INTERVAL_READING_NRT - near real-time updates.

**GET /gateway/messaging/files** - Downloads a data file based on the provided file name.

The file contains 15-minute electricity consumption and production data.

Response format:

- .avro (application/octet-stream)

#### 6.8.4.2 Example Usage

1. **Retrieve Events**

*Request example (Delta Interval Reading):*

```
{
    "dateTimeFrom": "2025-07-30T00:00:00+03:00",
    "dateTimeTo": "2025-07-30T00:15:00+03:00",
    "eventType": [
        "DELTA_INTERVAL_READING"
    ]
}
```

*Request example (Near Real-Time (NRT) Delta Interval Reading):*

```
{
    "dateTimeFrom": "2026-05-01T15:00:00+03:00",
    "dateTimeTo": "2026-05-01T15:15:00+03:00",
    "eventType": [
        "DELTA_INTERVAL_READING_NRT"
    ]
}
```

*Response example:*

```
[
    {
        "eventType": "DELTA_INTERVAL_READING",
        "reference": "delta_interval_reading_10004136_202507292245.avro",
        "eventDateTime": "2025-07-30T00:01:00.07221+03:00"
    }
]
```

**Notes:**

- Both DELTA and NRT use the same request and response structure; only the '*eventType'* value differs.
- Each event contains a '*reference*' value returned in the response, which must be used to download the corresponding file via /files endpoint.
- The 'eventDateTime' indicates when the event was created.

**2. Download Data File**

*Request example:*

```
GET /gateway/messaging/files?fileName=delta_interval_reading_10004136_202507292245.avro
```

**Query parameters:**

- fileName – exact name of the .avro file returned by the /events endpoint.

**Response:**

- Content-Type: application/octet-stream
- Body: binary.avro file

**File Processing:**

- The response contains a raw .avro file.
- To read and process the .avro file:
    - Use a compatible Avro library in your preferred programming language.
    - Follow the Apache Avro specification for decoding and interpreting the file contents.

## 6.8.5 Usage Recommendations

### 6.8.5.1 Polling Frequency

- It is recommended to call the GET /gateway/messaging/events endpoint regularly — for example, every **15 minutes** — to retrieve only the new data since the last successful request.
- To balance timely updates with system performance, avoid polling more frequently than once every **5 minutes**.

### 6.8.5.2 Data Preparation

- Interval data is written to files **continuously every 15 minutes**, immediately after meter readings are collected. If new data is available, it is compiled into .avro files during this interval.
- Polling the endpoint every 15 minutes aligns with the data availability schedule, ensuring efficient resource usage and avoiding unnecessary requests.

**Note:** Prepared interval data is then routed to DELTA or NRT streams based on the routing logic described below.

#### 6.8.5.3 Data routing

Data routing determines whether interval data is assigned to DELTA or NRT events.

**Routing logic**

- If the meter is configured to 15-minute (NRT) mode, unsent intervals are immediately submitted for delivery.
- Routing is determined per interval, based on NRT service status at that time.

**Rules**

- If NRT was enabled during the interval → data is delivered via DELTA_INTERVAL_READING_NRT.
- If NRT was not enabled → data is delivered via DELTA_INTERVAL_READING.

**Important**

- Historical intervals will be routed based on their original NRT status.
- Even if NRT is currently disabled, past intervals may still be delivered as NRT.

#### 6.8.5.4 File Data Structure

- Each .avro file contains readings at the **individual meter level** and is **not grouped by object**.
- To compile a full day's data for a specific object, it may be necessary to **merge data from multiple files**.
- In cases where an object has **multiple meters**, their readings may be distributed across **different files**.

**Important:**

- Only data from **SMART meters** is included in the dataset**.**
- The **date indicated in the file name does not reflect the data interval** contained within the file.
- It represents the **file generation timestamp**, not the time range of the data.
- The *'readingTime'* attribute indicates the **end** of the interval. This differs from the 15-minute consumption reports, where it marks the **start** of the interval.

#### 6.8.5.5 Data Gaps and Recovery

- Please note that **interval data gaps may occur** due to system disruptions.
- If you notice missing data:
    - We recommend **waiting up to 3 days** to allow for subsequent meter readings to be collected and processed.
    - If the data is still unavailable after this period, we advise using the **AS-IS solution** and requesting a **report** to compensate for the missing data.

#### 6.8.5.6 Peak Load Period

The solution supports both:

- **Historical daily data retrieval** (typically for the previous day)
- **Live 15-minute interval updates**

The highest data volume for standard DELTA is typically expected between 00:15 and 07:00 (UTC+2 during standard time, UTC+3 during daylight saving time), when daily data batches are processed.

For NRT data delivery, data is generated and distributed more evenly throughout the day.

#### 6.8.5.7 Data Continuity

To avoid data duplication or loss:

- Store the timestamp of the last successful response.
- Use it as the '*dateTimeFrom*' parameter in the next request to retrieve only new events.

**Note:** In certain cases, duplicate data entries may still occur (e.g., due to system delays or reprocessing). It is recommended to always use the latest available data and implement **deduplication logic** on the client's side if necessary.

#### 6.8.5.8 Filtering Options

The endpoint supports filtering by:

- **Event type**:
    - DELTA_INTERVAL_READING
    - DELTA_INTERVAL_READING_NRT
- **Time interval**:
    - using '*dateTimeFrom'* and '*dateTimeTo'* parameters

#### 6.8.5.9 File Download

- Files are downloaded via the GET /gateway/messaging/files endpoint using the '*fileName*' returned by the /events response.
- AVRO Schema:
    - The schema is included in the file metadata, allowing reliable data decoding without external references.

#### 6.8.5.10 Data Retention

- Generated .avro files are retained for **3 days (72 hours)**.
- After this period, files are automatically deleted and can no longer be retrieved.
- It is recommended to process and store the required data within this timeframe to avoid data loss.

**Please note:** Although historical event records (e.g., from the GET /gateway/messaging/events endpoint) are retained for **up to 1 year**, the corresponding .avro files are only available for **3 days from the time of file generation**. This means that even if the event data is still accessible, the original file containing that data may no longer be downloadable after the retention period.

#### 6.8.5.11 Error Handling

If no new data is available, the endpoint returns:

- 204 No Content

Other errors are indicated using standard HTTP status codes, such as:

- 400 Bad Request
- 403 Forbidden
- 500 Internal Server Error.

#### 6.8.5.12 Performance Considerations for AS-IS Reports

- Please note that when using the **AS-IS solution** (requesting reports), a **significant performance slowdown** may be experienced.
- For improved efficiency and faster access to interval data, we strongly recommend transitioning to the **Delta Interval Reading** functionality.

#### 6.8.5.13 Summary of differences

The table below summarizes the key differences between standard (DELTA) and near real-time (NRT) data delivery.

| Aspect | Delta Interval Reading | NRT Delta Interval Reading |
|---|---|---|
| Activation conditions | Activated upon supplier request | Requires contract and at least one active meter |
| Data type | Historical interval data | Historical interval data |
| Data availability | Typically next day | Typically available with a delay of up to ~1 hour (under normal conditions) |

| | | |
|---|---|---|
| Purpose | Standard reporting and reduced system load | Faster access to interval data |
| Pricing | Free | Paid (according to contract) |
| Event type | DELTA_INTERVAL_READING | DELTA_INTERVAL_READING_NRT |

## 6.9 Accounting Period Closure Events

**Purpose:**

- To notify suppliers when an accounting period is closed via the events endpoint, enabling timely access to accounting reports.
- Suppliers can periodically call the GET /gateway/messaging/events endpoint to detect the closure of an accounting period and retrieve the corresponding reports as soon as they become available.

### 6.9.1 Example: Retrieving ACCOUNTING_PERIOD_CLOSED Events

1. Retrieve Events:

| Endpoint | Description | Request Example | Response Example |
|---|---|---|---|
| GET /gateway/messaging/events | Returns a list of events that occurred within the specified time interval. | {<br>"dateTimeFrom": "2025-08-04T13:25:00+03:00",<br>"dateTimeTo": "2025-08-04T13:30:00+03:00",<br>"eventType": [<br>"ACCOUNTING_PERIOD_CLOSED"<br>]<br>} | [<br>{<br>"eventType": "ACCOUNTING_PERIOD_CLOSED",<br>"reference": "2025-07",<br>"eventDateTime": "2025-08-04T13:28:48.782827+03:00"<br>}<br>] |

**Attributes:**

- eventType: "ACCOUNTING_PERIOD_CLOSED" – indicates the closure of an accounting period.
- reference: identifies the specific accounting period that has been closed (e.g., "2025-07").

## 6.9.2 Usage Recommendations

### 6.9.2.1 Polling Frequency

- It is recommended to call the GET /gateway/messaging/events endpoint regularly — for example, every **5 minutes** — to retrieve only the new data since the last successful request.
- To balance timely updates with system performance, avoid polling more frequently than once every **5 minutes**.
- If your use case requires near real-time updates, you may reduce the interval to **once per minute**, but make sure this does not exceed your API rate limits or cause unnecessary load on the system.
- Use the dateTimeFrom parameter to specify the timestamp of the last successful request.
- Filter by eventType=ACCOUNTING_PERIOD_CLOSED to retrieve only relevant events.

### 6.9.2.2 Accounting Period Closure Events

**Typical Timing**:

- Events of type ACCOUNTING_PERIOD_CLOSED are most likely to occur starting from the **4th business day of the month and up to the 10th calendar day**, following the completion of monthly accounting processes.

**Polling Recommendation:**

- If an ACCOUNTING_PERIOD_CLOSED event has already been received for the current month, there is no need to continue polling for this event type until the next accounting period.
- No additional closure events will be generated for the same period.

**Best Practices**

- Ensure that your system stores the timestamp of the last successful poll.
- Check whether a closure event has already been received for the current period.
- Avoid unnecessary polling once the closure event is confirmed, to reduce load and optimize performance.

#### 6.9.2.3 Error Handling

- If no new data is available, the endpoint returns:
  - 204 No Content
- Other errors are indicated using standard HTTP status codes, such as:
  - 400 Bad Request
  - 401 Unauthorized
  - 500 Internal Server Error.

## 6.10 Metrics and statistics usage

Statistical data can be retrieved using different endpoints depending on the analysis needs, ranging from aggregated views to detailed, breakdown-level analysis. The following endpoints are available for retrieving statistical data.

***GET /gateway/statistic/list***

This endpoint provides system usage metrics, including the number of submitted requests, generated reports, granted permissions, messaging-related data and others. The statistics are available with an object-level breakdown.

For full list of available statistics, see the Statistic names section.

***POST /gateway/metrics/search***

This endpoint currently covers only NRT service processing metrics and provides detailed analysis with dimensional breakdowns by notification status, failure reason, deactivation reason, active meter count, and active meter growth.

For full list of available metrics, see the Metrics overview section.

# 7. DataHub Gateway API documentation

This section of the document provides detailed information about the DataHub Application Programming Interface (DH API), including descriptions of API methods, the structure of request and response JSON data models, data validation rules, error handling procedures, and other related topics.

DH returns standard HTTP response codes:

| HTTP response codes | Reason | Description |
|---|---|---|
| 200 | OK | The request has succeeded. |

| HTTP response codes | Reason | Description |
|---|---|---|
| 201 | Created | The request was successful, and a new resource has been created. |
| 204 | No content | No data was found according to the given parameters. |
| 400 | Bad Request | Request error. The HTTP response body provides a list of errors in JSON format. |
| 401 | Unauthorized | An attempt was made to connect to a non-public method that requires authentication, but no user credentials were provided. |
| 403 | Forbidden | According to the access control policy, the current user does not have access to perform the requested action. |
| 404 | Not Found | Either there is no API method associated with the request URL path, or the request contains one or more parameters that did not return the data. |
| 500 | Internal Server Error | A generic error message, given when an unexpected condition was encountered and no more specific message is suitable |

When submitting requests that do not adhere to the described rules, a JSON error response will be returned in the following format:

**Error response**

```
{
  "errorMessages": [
    {
      "code": integer,
      "text": "string"
    }
  ]
}
```

The following table describes the JSON structure in the event of a response error:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| code | integer | N | Error code. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| text | string | Y | Error message. |

## 7.1 Declaration controller

The Declaration Controller provides information about API methods intended for declaring non-smart meter data amounts for DSO. It is recommended to use these methods in the supplier's user interface system or other internal systems that collect or allow the provision of meter-related data. GET and POST methods can be used in suppliers' self-service portals to let customers declare data themselves.

**Declaration Data Transfer Supplier ↔ DH ↔ DSO:**

- Supplier-provided data is transferred to the DH Database as soon as possible and then to the DSO Billing system. This process may involve up to a 1-hour transaction delay.
- Every 30 minutes, data are synced from the DSO Billing system to the DH Database to provide updated information to the Supplier. This means that data in the DH Database can be 0-60 minutes old compared to the DSO Billing database.

### 7.1.1 GET /gateway/supplier/v3/get-declaration-data

| | |
|---|---|
| **Endpoint** | GET /gateway/supplier/v3/get-declaration-data |
| **Description** | The method allows the supplier to receive data on the latest known meter readings for the consumption of its customers' objects |
| **Parameter** | URL parameters: *first, count, customerId, objectNumber.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"clientId": "string",<br>"customerId": "string",<br>"clientName": "string",<br>"readings": [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string",<br>"counterNumber": "string",<br>"scaleMaxchar": integer,<br>"conversionPoss": boolean,<br>"scales": [<br>{<br>"scaleId": integer,<br>"scaleIdentifier": "string",<br>"scaleType": "string",<br>"readingFromDate": "string",<br>"readingFrom": integer,<br>"readingMin": integer,<br>"readingSource": "string",<br>"lastCheckedReadingValue": integer,<br>"lastCheckedReadingValueDate": "string"<br>}<br>] |

| | |
|---|---|
| | }<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| A match between the supplier and the object number could not be found in the DH database. | 2 | Object *[objectNumber]* not found or not belongs to You. Please check provided information. | objectNumber |
| The maximum number of objects in one request is 50 000. | 12 | Supplier provide count attribute value which is more than 50 000. One request can return maximum 50 000 objects' information. | objectNumber |
| The method returns only the valid scales of valid meters. | | | |
| The method returns only the scales of non-automated meters. | | | |

#### 7.1.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first *(query)* | integer | N | The index of the report line, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of order's rows in the return list. The default value is 30. If no value is given, the default value count will be 30. |
| customerId *(query)* | string | N | User code of the contracted customer for data filtering. |
| objectNumber *(query)* | string | N | Customer's object number for data filtering. |

#### 7.1.1.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| clientId | string | Y | Client identification (ID). |
| customerId | string | Y | User code of the contracted customer. |
| clientName | string | Y | Client name.<br><br>If household customer, then displays Name and Surname.<br>If client is a legal entity, then displays company name. |
| readings: [] **-** *List of the declaration readings data* | | | |
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Object address. |
| counterNumber | string | Y | Meter number which was provided by the manufacturer. |
| scaleMaxchar | integer | Y | Field specifies maximum number of chars which could be provided to readingTo scale field. |
| conversionPoss | boolean | Y | Scale possible conversion. Possible meanings: |

| | | | |
|---|---|---|---|
| | | | • true - possible conversion<br>• false - impossible conversion |
| readings.scales: [] - *List of the scales.* | | | |
| scaleId | integer | Y | Scale identification (ID). |
| scaleIdentifier | string | Y | Internal scale identifier. Possible meanings:<br><br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleType | string | Y | Internal scale product type. Possible meanings:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingFromDate | string (dateTime) | Y | Date indicating when the last declared reading was registered and confirmed in the ESO Biling system. Last known "readingFrom" date. |
| readingFrom | integer | Y | Last confirmed declared actual reading value, if there are not actual - then average "readingFrom" value. |

| | | | |
|---|---|---|---|
| readingMin | integer | N | The minimum reading specifies the lowest possible declaration "readingTo" value. |
| readingSource | string | Y | The reading source of the last declared reading value. Possible meanings:<br><br>• A - automatically scanned readings<br>• D - your declared readings<br>• L - checked readings<br>• P - rewritten readings from a previous agreement<br>• V - average readings<br>• K - readings from credit document |
| lastCheckedReadingValue | integer | Y | The value of the last reading written by the ESO. |
| lastCheckedReadingValueDate | string (dateTime) | Y | Date indicating when the value of the last reading written by ESO was registered and confirmed in the ESO Biling system. |

### 7.1.2 POST /gateway/declaration/v2/reading/list

| | |
|---|---|
| **Endpoint** | POST /gateway/declaration/v2/reading/list |
| **Description** | The method is intended to obtain the last declared data of the supplier's customer objects. The method is also designed to obtain changes in the declaration data. |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"objectNumber": "string",<br>"cdcDateTimeFrom": "string",<br>"cdcDateTimeTo": "string"<br>} |
| **JSON response** | [<br>{<br>"objectNumber": "string", |

| | |
|---|---|
| | "cdcDateTime": "string",<br>"meters": [<br>{<br>"conversionPoss": boolean,<br>"meterNumber": "string",<br>"meterScaleLength": integer,<br>"meterAutoamted": boolean,<br>"readings": [<br>{<br>"scaleId": integer,<br>"scaleIdentifier": "string",<br>"scaleProduct": "string",<br>"readingFromDate": "string",<br>"readingMin": integer,<br>"readingFrom": integer,<br>"readingSource": "string"<br>"lastCheckedReadingValue": integer,<br>"lastCheckedReadingValueDate": "string"<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The method returns all objects that have signed contracts. | | | |
| Only valid scales are returned where the current time falls. | | | scaleId |
| Only valid scale types (product types) are returned. | | | scaleProduct |

| | | | |
|---|---|---|---|
| The maximum value per query can be 10 000 objects. If s more than 10 000 are submitted, an error message is displayed. | 12 | The maximum number of objects in one request is 10 000. | |

#### 7.1.2.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | Index (starting from 0) of the object that must be presented first in the return list. The default value is 0. |
| count (*query*) | integer | N | Number of objects in the return list. The default value is 10 000. |
| sortKey (*query*) | string | N | Sort the returned records by data. The default value is "objectNumber". It can change and sort by "cdcDateTime". If sort is not provided, the default value applies. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order: ASC / DESC. The default value is ASC. If "sortOrder" is not provided, the default value applies. |

#### 7.1.2.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string (20) | N | Object number. |
| cdcDateTimeFrom | string (dateTime + timeZone) | N | Change date from of the object (inclusive). |
| cdcDateTimeTo | string (dateTime + timeZone) | N | Change date to of the object (inclusive). |

#### 7.1.2.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string | Y | Object number. |
| cdcDateTime | string (dateTime + timeZone) | Y | The last modified date of the object. |
| meters: [] | | | |
| meterNumber | string | Y | Meter number. |
| meterScaleLength | integer | Y | Field specifies maximum number of chars which could be provided readingTo field. |
| conversionPoss | boolean | Y | Scale possible conversion. Possible meanings:<br>• true - possible conversion<br>• false - impossible conversion |
| meterAutomated | boolean | Y | Automated meter feature. Possible meanings:<br>• true<br>• false<br>• If the meter is automated, the values "meterAutomated": **true** and "readings": **null** are returned.<br>• If the meter is non-automated, the values "meterAutoamted": **false** and "readings": a **full** object with scales and readings are returned. |
| meters.readings: [] | | | |
| scaleId | integer | Y | Scale identification (ID). |
| scaleIdentifier | string | Y | Internal scale identifier. Possible meanings:<br>• VT<br>• DD<br>• DN<br>• +QsumTS |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleProduct | string | Y | Internal scale product. Possible meanings:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingFromDate | string (dateTime) | Y | Date indicating when the last declared reading was registered and confirmed in the ESO Biling system. Last known "readingsFrom" date. |
| readingFrom | number | Y | Last declared reading value. |
| readingMin | integer | N | The minimum reading that can be provided by the Supplier or the customer in the Supplier Self-Service to the "readingTo" field in the POST method. |
| readingSource | string | Y | The reading source of the last declared reading value. Possible meanings:<br><br>• A - automatically scanned readings<br>• D - your declared readings<br>• L - checked readings<br>• P - rewritten readings from a previous agreement<br>• V - average readings |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| lastCheckedReadingValue | integer | Y | The value of the last reading written by the ESO. |
| lastCheckedReadingValueDate | string (dateTime) | Y | Date indicating when the value of the last reading written by ESO was registered and confirmed in the ESO Biling system. |

### 7.1.3 POST /gateway/supplier/send-declaration-data

| | |
|---|---|
| **Endpoint** | POST /gateway/supplier/send-declaration-data |
| **Description** | The method is intended to provide readings of the scale declared by the object. The readings are given at the object level, so all counters on the full scale must be presented at the same time. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | [<br>{<br>"objectNumber": "string",<br>"dataWriteDate": "string",<br>"readings": [<br>{<br>"reading": [<br>{<br>"sklId ": integer,<br>"readingTo": integer,<br>"conversion": boolean<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON response** | |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| Must be specified valid object and the object must belong to supplier. | 2 | Object *[objectNumber]* not found or not belongs to You. Please check provided information. | objectNumber |
| The date of the declared reading must be the day of the current month, except for the first working day of the month (it must be calculated when the first working day of the month is considering public holidays (for example 2025-01-01). The declaration must be closed on the first working day of the month at 12:59:59. It also checks that the date and time of dataWriteDate is not a future time compared to the server sysdate.<br><br>**Note.** If the supplier wants to declare the data of the customer who no longer belongs to him, but belonged to the previous month, then the supplier can declare the data for the previous month on the first working day of the next month until 12:59:59 h.<br><br>*For example*:<br><br>• Sysdate 2020-10-01 12:15, dataWriteDate 2020-08-30T16:55:00<br>• Sysdate 2020-10-01 12:15, dataWriteDate 2020-09-01T00:55:00<br>• Sysdate 2020-10-01 12:15, dataWriteDate 2020-10-01T08:00:00<br>• Sysdate 2020-10-01 12:15, dataWriteDate 2020-10-01T08:00:00 | 3 | Declaration data for the previous reporting period can no longer be provided (period was closed) or Your provide date shows future time. | dataWriteDate |

| | | | |
|---|---|---|---|
| • Sysdate 2020-10-01 13:05, dataWriteDate 2020-10-01T09:00:00<br>• Sysdate 2020-10-01 13:05, dataWriteDate 2020-09-25T15:55:00<br>• Sysdate 2020-10-01 13:05, dataWriteDate 2020-10-25T08:00:00<br><br>Lines (2-5) will be accepted, because comply requirement, other lines will be rejected, because period for August (1) and September (6) was closed and (7) because declaration in the future is not possible. | | | |
| The "readingTo" value cannot excced the "scaleMaxchar". If the number of characters exceeds, then error will be displayed.<br><br>For example,<br><br>The value of "scaleMaxchar" is 5, then the maximum "readingTo" value can be 99999. | 4 | Incorrect number of digits in readingTo field. Please check maximum number of digits in this scale. | readingTo |
| The scale "readingTo" value can only be integers and if conversion is **false** then the value must be greater than or equal to the value of the declarate scale "readingMin".<br><br>**Note.** If scale conversion is possible, then this value may be less than "readingMin". | 5 | Parameter readingTo is integer and can not be less than value readingMin. Please check this field value. | readingTo, readingMin |
| The conversion indicator may be provided if the "conversationPoss" is **true** and if the estimated consumption is less than half of the maximum consumption of the scale.<br><br>For example,<br><br>• "scaleMaxchar" is **5**, then the maximum scale consumption can be 99999. | 7 | A conversion indicator may be provided if the estimated consumption is less than half of the maximum consumption of the scale and if the scale has a conversion indicator. | conversion, readingTo |
| Readings can only be declared for valid scales. If the scale is no longer valid or not exist, an error message displayed. | 8 | The scale *[sklId]* does not exist or is no longer valid. | sklId |
| The value of the "objectNumber" attribute checks whether the user is household or commercial. If the consumer is household, it is permissible to specify the value of "readingsTo" such that | 9 | Data belongs to household client and declarated meter value is more than 20 000. Please check data and try again. | readingTo |

| | | | |
|---|---|---|---|
| after the mathematical operation "readingsTo" - "readingsFrom" <= 20 000 (This parameter is configurable, the value of this parameter can change). (consumption <=20 000 kwh).<br><br>If the customer is household and the consumption is greater than 20 000 kwh, please contact DSO. | | | |
| It is mandatory to send the scales of all meters in the object at the same time. It is checked whether the supplier sends all the scales assigned to the specific object. | 10 | The declaration process is performed in the context of the object. It has to be provided all meters with all scales which belongs to provided object. One of meter or scale is missing or meter automated, please check provided data. | sklId, objectNumber |
| Meter scales cannot be repeated for the same object. | 13 | Meter scales with ids [*sklid, sklid]* are repeating. | sklId |
| Declare data cannot be declared if the object belongs to a public supplier and object "contracType" is SBTS. | 14 | Readings not accepted. The object *[objectNumber]* belongs to a public supplier. | objectNumber |

#### 7.1.3.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string | Y | Object for the supply of electricity in which the contract is concluded. |
| dataWriteDate | string (dateTime) | Y | The date when the meter data was written off. |
| readings: [] - *List of the meters in the object.* | | | |
| readings.reading: [] - *List of the scales in the meter.* | | | |
| sklId | integer | Y | Scale identification (ID) number. |
| readingTo | integer | Y | Meter's scale written of value, which is provided by customer or supplier. |
| conversion | boolean | Y | The value of the scale conversion characteristic. Possible meanings:<br>• true - Yes, there was a conversion<br>• false - no, no conversion (default value) |

## 7.2 Access right controller

### 7.2.1 POST / gateway/access-right/v3/list

| | |
|---|---|
| **Endpoint** | POST /gateway/access-right/v3/list |
| **Description** | The method to obtain information and a list of granted rights. |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party’s authentication key, the involved party ID is used to select the data. |

| | |
|---|---|
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "accessRightId": integer, "personCode": "string", "consumerCode": "string", "objectNumber": "string", "objectAddressSearch": "string", "powerPlantObjectType": "string", "accessRightValidFrom": "string", "accessRightValidTo": "string", "accessRightSource": "string", "contractType": "string", "contractModel": "string", "accountingType": "string", "generatingObjectType": "string", "supplierType": "string", "powerPlantType": "string", "userNameSearch": "string" } |
| **JSON response** | [ { "accessRightId": integer, "accessRightValidFrom": "string", "accessRightValidTo": "string", "daysLeft": integer, "accessRightSource": "string", "userName": "string", "objectNumber": "string", "objectAddress": "string", "powerPlantObjectType": "string", "contractModel": "string", |

| | |
|---|---|
| | "supplierType": "string",<br>"tariffPlan": "string",<br>"timeZone": "string",<br>"accountingType": "string",<br>"usedPowerPlants": [<br>{<br>"powerPlantObjectNumber": "string",<br>"powerPlantType": "string",<br>"generatingObjectType": "string",<br>"accountingScheme": "string",<br>"payoffMethod": "string",<br>"generatingPower": number<br>}<br>],<br>"automationLevel": "string",<br>"contractType": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"personCode": "string",<br>"consumerCode": "string",<br>"accessRightPhoneNo": "string",<br>"accessRightEmailAddress": "string",<br>"accessRightNote": "string"<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | accessRightValidFrom, accessRightValidTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Only valid, irrevocable access rights granted must be included in the list. | | | |

#### 7.2.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the access rights (ID), which must be the first in the returned list (starting from 0). The default value is 0. |
| count (*query*) | integer | N | The number of access rights (ID) in the return list. Optional. The default value is 30. |
| sortKey (query) | string | N | The attribute to sort by. The default value is accessRightId. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.2.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accessRightId | integer | N | Access right identification (ID). |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | N | Person code. |
| consumerCode | string | N | Consumer code. |
| objectNumber | string | N | Object number. |
| objectAddressSearch | string | N | Object address search. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| accessRightValidFrom | string (dateTime) | N | Access right valid date From. |
| accessRightValidTo | string (dateTime) | N | Access right valid date To. |
| accessRightSource | string | N | Access right source. Possible meanings:<br>• ESO-S - The access right granted through the ESO-S system<br>• DATAHUB - The access right granted through the DATAHUB system |
| contractType | string | N | Contract type. Possible meanings:<br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| contractModel | string | N | Contract model. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| supplierType | string | N | Supplier type. Possible meanings:<br><br>• VT - public supplier<br>• GT - warranty supplier<br>• NT - independent supplier |
| accountingType | string | N | Accounting type. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates EUR<br>• NET_METERING_NET_BILLING - accumulates kwh and EUR<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| powerPlantType | string | N | Type of used power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| userNameSearch | string (240) | N | Username search. |

#### 7.2.1.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accessRightId | integer | Y | Access right identification (ID). |
| accessRightValidFrom | string (dateTime) | Y | Access right valid date From. |
| accessRightValidTo | string (dateTime) | Y | Access right valid date To. |
| daysLeft | integer | Y | Number of days, how long the access right is still valid. |
| accessRightSource | string | Y | Access right source. Possible meanings:<br><br>• ESO-S - The access right granted through the ESO-S system<br>• DATAHUB - The access right granted through the DATAHUB system |
| userName | string | Y | The user who added the granted right. |
| objectNumber | string | Y | Object number. |
| objectAddress | string | N | Object address. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| contractModel | string | Y | Contract model. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| supplierType | string | Y | Supplier type. Possible meanings:<br><br>• VT - public supplier<br>• GT - warranty supplier<br>• NT - independent supplier |
| tariffPlan | string | N | Tariff plan of object. |
| timeZone | string | N | Time zone of object. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| accountingType | string | Y | Object accounting type. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates EUR<br>• NET_METERING_NET_BILLING - accumulates kwh and EUR<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| usedPowerPlants: [] - *Information of used power plants.* | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| powerPlantType | string | N | Type of used power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| generatingObjectType | string | N | Generating object type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered el. energy<br>• G - kW – Power plant installed capacity<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| generatingPower | number | N | The power generated by assigned power plant. |
| | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| automationLevel | string | Y | Automation level. Possible meanings:<br><br>• FULL – full automation<br>• PARTIAL - partial automation<br>• NONE – no automation |
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Contract owner surname. |
| personCode | string | Y | Person code. |
| consumerCode | string | Y | Consumer code |
| accessRightPhoneNo | string | N | Access right phone number. |
| accessRightEmailAddress | string | N | Access right phone email address. |
| accessRightNote | string | N | Notes. |

### 7.2.2 POST /gateway/access-right

| | |
|---|---|
| **Endpoint** | POST /gateway/access-right |
| **Description** | The supplier can grant rights to access clients' historical data if there is a client agreement.<br><br>Using this API method, the vendor grants itself the right to access the historical data of the client objects on behalf of the customer. Once the rights have been granted, the supplier can download the customer's historical data for a certain period and based on that, offer the customer a contract. |

| | |
|---|---|
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "consentSign": boolean, "personName": "string", "personSurname": "string", "personCode": "string", "personBirthDate": "string", "accessRightInformation": [ { "objectNumber": "string", "accessRightValidTo": "string", "accessRightPhoneNo": "string", "accessRightEmailAddress": "string", "accessRightNote": "string" } ] } |
| **JSON response** | [ { "accessRightId": integer } ] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If the object of the existing contract type is SKMS, then the access right can be granted without restriction to the future. | | | accessRightValidTo |
| If a record has been created for the interested party (independent supplier) and the object and person, it is updated, otherwise a new access right is inserted. | | | objectNumber<br>accessRightValidTo |
| The meaning of the "objectNumber" cannot be repeated. | 7 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| Must be specified valid object. | 8 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is not valid. | objectNumber |
| The types of existing contracts for the objects must be the same. | 3001 | Access right assign is not possible. Different contract types of objects. | objectNumber |
| The attribute "accessRightValidTo" cannot be equal to the past date. | 3003 | Access right expire date can not be equal to the past date. | accessRightValidTo |
| If the object of the existing contract type is SBTS, then the maximum access right can be granted for one year, calculated from the current inclusive. | 3004 | If the contract type is SBTS, the maximum access right can be granted for one year. | accessRightValidTo |
| The format of the attribute "accessRightPhoneNo" must be: +370XXXXXXXX, X - an integer (0 must be included). | 3005 | Phone no. incorrect format. | accessRightPhoneNo |
| The format of the attribute "accessRightEmailAddress" must be [text] [@] [text] [. domain], letters in the text must be Latin.<br><br>Can be at most 64 characters up to @ symbol and cannot begin/end with a dot or special character. | 3006 | Email address incorrect format. | accessRightEmailAddress |
| All objects specified in the request must belong to the owner specified in the request, the owner's contract must be valid and signed. | 3007 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not belong to the specified owner / object does not have a valid contract. | personCode,<br>personSurname,<br>personName,<br>personBirthDate,<br>objectNumber |

| | | | |
|---|---|---|---|
| The attributes "personSurname" and "personCode" or "personBirthDate" are mandatory if the object's existing contract type is **SBTS**. | 3008 | Person surname and personal code or date of birth are required if the contract type is SBTS. | personSurname, personCode, personBirthDate |
| The attribute "personCode" is required if the object's existing contract type is **SKMS**. | 3009 | The company code must be provided if the contract type is SKMS. | personCode |
| If the attribute "consentSign" is **false**, then the creation must be disabled. | 3010 | It is necessary to confirm that the data provided is correct and the consent of the owner of the object has been obtained. | consentSign |

#### 7.2.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consentSign | boolean | Y | Consent sign. Possibles meanings:<br>• true<br>• false<br><br>By providing consent, the user agrees to:<br><br>"I confirm that the consent of the specified person / company and / or legal basis to receive and process personal / company data has been obtained (person's name, surname / company name, person / company code, address, contact details, facility and electricity consumption data)." |
| personName | string (200) | Y | Person name. |
| personSurname | string (50) | N | Person surname. |
| personCode | string (20) | N | Person code. |
| personBirthDate | string (date) | N | Person birth date. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accessRightInformation: [] - *Access right information.* | | | |
| objectNumber | string (20) | Y | Object number. |
| accessRightValidTo | string (date) | Y | Access right valid date To. |
| accessRightPhoneNo | string (12) | N | Access right phone number. |
| accessRightEmailAddress | string (100) | N | Access right phone email address. |
| accessRightNote | string (4000) | N | Notes. |

#### 7.2.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | description |
|---|---|---|---|
| accessRightId | integer | Y | Access right identification (ID). |

### 7.2.3 POST /gateway/access-right/{accessRightId}/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/access-right/{accessRightId}/cancel |
| **Description** | The supplier may remove the rights granted to him. He granted the rights himself with the client's permission, or the rights were granted to him by the client through ESO-S. The supplier can remove on rights which was granted by himself. |
| **Parameter** | URL parameters: *accessRightId*. |
| **Header** | After decrypting the involved party’s authentication key, the involved party ID is used to select the data. |

| | |
|---|---|
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| It must be verified that the access right, according to the provided "accessRightId", exists, is currently valid, and has not been revoked. | 3011 | The access right was not found in the system / it is not valid / is revoked / the right does not belong to the user initiating the action. | accessRightId |
| Upon successful revocation, a revocation sign must be affixed. | | | |

#### 7.2.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accessRightId (*path*) | integer | Y | Access right identification number (ID). |

## 7.3 Order controller

### 7.3.1 POST /gateway/order/v2/list

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/list |

| | |
|---|---|
| **Description** | Method will return list of the orders. |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"orderId": integer,<br>"orderTypes": [<br>"string"<br>],<br>"submittedDateFrom": "string",<br>"submittedDateTo": " string ",<br>"dateFrom": "string",<br>"dateTo": "string",<br>"latestStatuses": [<br>"string"<br>],<br>"auto": boolean,<br>"userNameSearch": "string",<br>"orderParametersSearch": "string",<br>"involvedPartyPermissionId": integer<br>} |
| **JSON response** | [<br>{<br>"orderId": integer,<br>"orderType": "string",<br>"submittedDate": "string",<br>"dateFrom": "string",<br>"dateTo": "string",<br>"orderParameters": "string",<br>"latestStatus": "string",<br>"statusDate": "string",<br>"expireDate": "string",<br>"auto": boolean, |

| | |
|---|---|
| | "userName": "string",<br>"involvedPartyPermissionId": integer<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo, submittedDateFrom, submittedDateTo |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.3.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first *(query)* | integer | N | The index of the report line, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of order's rows in the return list. Optional. The default value is 30. If no count value is given, the default value count will be 30. |
| sortKey *(query)* | string | N | The attribute to sort by. Default meaning: orderId. |
| sortOrder *(query)* | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. By default, the reports' orders list sorted by the orderId. |

#### 7.3.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | N | The report ordering primary surrogate key. |
| orderTypes | list of strings | N | The short name of the order type. Possible meanings:<br>• data-hr-15min-mtr-lvl - Automated quantities at the meter level<br>• data-hr-15min-obj-lvl - Automated quantities at the object level<br>• bill-2s2s-b2b - Billing report for 2S2S model B2B<br>• bill-bss-b2b - Billing report for BSS model B2B<br>• bill-bss-b2c - Billing report for BSS model B2C<br>• report-obj - Objects report<br>• data-hr-15min-history-changes – Net billing accounting scheme changes of interval data<br>• balance-data - Balance data report<br>• balance-by-generation-type – Balance by generation type report<br>• data-sum-obj-lvl – Total quantities report<br>• data-daily-obj-lvl - daily quantities at the object level<br>• data-daily-mtr-lvl - daily quantities at the meter level<br>• move-in-obj - Report of Incoming Objects<br>• move-out-obj - Report of Outgoing Objects<br>• balance-data-by-contract-type – Balance data by contract type<br>• dso-consumption-production – DSO network users consumption and production |

| | | | |
|---|---|---|---|
| | | | • nrt-charged-meters - Report of meters billed for the NRT service |
| submittedDateFrom | string (dateTime) | N | Order’s submission date from. |
| submittedDateTo | string (dateTime) | N | Order’s submission date to. |
| dateFrom | string (date) | N | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | N | The end of the reporting period. The reporting period end date is the last day of the month. |
| latestStatuses | list of strings | N | The status of the order. Possible meanings:<br>• IV – Completed<br>• V – In progress<br>• P – Submitted<br>• K – Error |
| auto | boolean | N | Indication that the order was ordered automatically. |
| userNameSearch | string | N | The user who ordered the order. |
| orderParametersSearch | string | N | The order parameters. |
| involvedPartyPermissionId | integer | N | Identification number of the granted permission |

#### 7.3.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |
| orderType | string | Y | The short name of the order type. Possible meanings:<br>• data-hr-15min-mtr-lvl - Automated quantities at the meter level<br>• data-hr-15min-obj-lvl - Automated quantities at the object level |

| | | | |
|---|---|---|---|
| | | | • bill-2s2s-b2b - Billing report for 2S2S model B2B<br>• bill-bss-b2b - Billing report for BSS model B2B<br>• bill-bss-b2c - Billing report for BSS model B2C<br>• report-obj - Objects report<br>• data-hr-15min-history-changes – Net billing accounting scheme changes of interval data<br>• balance-data - Balance data report<br>• balance-by-generation-type – Balance by generation type report<br>• data-sum-obj-lvl – Total quantities report<br>• data-daily-obj-lvl - daily quantities at the object level<br>• data-daily-mtr-lvl - daily quantities at the meter level<br>• balance-data-by-contract-type – Balance data by contract type<br>• nrt-charged-meters - Report of meters billed for the NRT service |
| submittedDate | string (dateTime) | Y | The date of the order submission. |
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month.<br>If the ordered report is Object Automated Consumptions, "dateFrom" can be not only the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month.<br>If the ordered report is Object Automated Consumptions, "dateTo" can be not only the last day of the month. |
| orderParameters | string | Y | The search parameters by which the data in the ordered order was filtered. |
| latestStatus | string | Y | The current status of the order. |
| statusDate | string (dateTime) | Y | The latest status date. |
| expireDate | string (date) | Y | Date of validity of the order:<br>• The ordered report with status is **Completed** by default, is available only for 24 hours.<br>• The report, which was generated automatically by default, is available for 12 months. |
| auto | boolean | Y | Indication that the report order was ordered automatically. |
| userName | string | Y | The user who ordered the order. |

| | | | |
|---|---|---|---|
| involvedPartyPermissionId | integer | N | Identification number of the granted permission. If the field is filled, the report data is generated from the data of the interested party that granted the permission. |

### 7.3.2 POST /gateway/order/v2/data-hr-15min-mtr-lvl

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/data-hr-15min-mtr-lvl |
| **Description** | The method is intended for ordering data at the meter level of automated quantities. |
| **Parameters** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "consumptionCategories": [ "string", "string" ], "objectNumbers": [ "string", "string" ], "interval": "string" } |
| **JSON response** | { "orderId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: [objectNumber (if there is more than one object, objects must be separated by the semicolon)], was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| Report can be ordered maximum for 12 months. | 2013 | The report can only be ordered for 12 months or less. | dateFrom<br>dateTo |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom<br>dateTo |
| A maximum of 500 objects can be submitted in a report order | 2021 | A maximum of 500 objects can be submitted in a report order | objectNumbers |
| If "objectNumbers" is not specified, then the report can be ordered for a maximum of 1 month period. | 2023 | The report without specifying the objects can only be ordered for 1 month or less. | objectNumbers<br>dateFrom<br>dateTo |
| The meaning of the "objectNumber" cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |

#### 7.3.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| consumptionCategory | list of strings | Y | The consumption category. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | list of string | Y | Object number. |
| interval | string | Y | Consumption interval. Possible meanings:<br>• HOUR<br>• QUARTER |

#### 7.3.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.3 POST /gateway/order/v2/data-hr-15min-obj-lvl

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/data-hr-15min-obj-lvl |
| **Description** | The method is intended for ordering automated quantities at object level data. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "consumptionCategories": [ "string", "string" ], "objectNumbers": [ "string", "string" ], "interval": "string", "netBilling": { "intervalData": boolean, "intervalDataRecalculation": boolean, "intervalDataDetailed": boolean } } |
| **JSON response** | { "orderId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]***,** was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| Report can be ordered maximum for 12 months. | 2013 | The report can only be ordered for 12 months or less. | dateFrom, dateTo |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |
| If "objectNumbers" is not specified, then the report can be ordered for a maximum of 1 month period. | 2023 | The report without specifying the objects can only be ordered for 1 month or less. | objectNumbers, dateFrom, dateTo |

| | | | |
|---|---|---|---|
| Parameters below can only be specified, if netBilling "intervalData" is **true**:<br><br>• intervalDataRecalculation<br>• intervalDataDetailed<br><br>**Note:** Without specifying the latter parameters, i.e., specifying null will treat them as **false**. | 2026 | Recalculation of generation and consumption and an option to choose the type of power plant data view is only possible if the order is submitted for the object, which has "Net billing" accounting scheme. | netBilling,intervalData, intervalDataRecalculation, intervalDataDetailed |
| If netBilling "intervalDataRecalculation" is **true**, then recalculation can be initiated only for past periods. | 2027 | Recalculation of generation and consumption for object which has "Net billing" accounting scheme can be only initiated for past periods. | netBilling, intervalDataRecalculation, dateFrom, dateTo |
| The meaning of the "objectNumber" notification cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| If netBilling **"**intervalData**"** is **true** and "netBilling.intervalDataRecalculation" is **true**, then recalculation can be initiated for the previous month only possible from the 4th working day of the current month (**date and hour is configurated parameter**).<br><br><u>For example,</u><br><br>• If current date and time 2024-04-03 8 hours (it is the 2nd working day 8 hour), then recalculation of generation and consumption for object which has "Net billing" accounting is not possible for 2024-03 accounting period.<br>• If current date and time 2024-04-05 10 hours (it is the 4th working day 10 hour), then recalculation of generation and consumption for object which has "Net billing" accounting scheme is possible for 2024-03 accounting period. | 2030 | Recalculation of generation and consumption for object which has "Net billing" accounting scheme is not possible for the previous accounting *period (previous accounting period [YYYY-MM]).* | netBilling, intervalData**,** intervalDataRecalculation |
| If "intervalData" is **true** and "intervalDataRecalculation" is **true**, recalculation of generation and consumption for objects using the Net billing accounting scheme can be performed for only one reporting period per request.<br><br>**Note**. If the calculation period is not a full month (for example one day), then the entire month is calculated, and the data is provided only for the period that was specified during the order. | 2032 | Recalculation of generation and consumption for object which has "Net billing" accounting scheme can be initiated only for 1 accounting period. | netBilling, intervalData, intervalDaterecalculation, objectNumbers |

| | | | |
|---|---|---|---|
| For example:<br><br>• Recalculation period 2024-02-01 - 2024-02-29 (complies with requirements).<br>• Recalculation period 2024-02-15 - 2024-03-15 (does not complies requirements, because specified 2 accounting months).<br><br>Recalculation period 2024-02-15- 2024-02-15 (complies with requirements). | | | |

#### 7.3.3.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period.The reporting period end date is the last day of the month. |
| consumptionCategory | list of strings | Y | The consumption category. Possible meanings:<br><br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | list of strings | Y | Object numbers.<br>Please note that Net Billing data collection (*netBilling.intervalData* = *true*) depends on the number of objects included in each request. For more details, please refer to the Net Billing Usage Recommendations section. |
| interval | String | Y | Consumption interval. Possible meanings: |

| | | | |
|---|---|---|---|
| | | | • HOUR<br>• QUARTER |
| netBilling: {} | | | |
| intervalData | boolean | N | Indication that the object is in "Net billing" accounting scheme. Possible meanings:<br><br>• true<br>• false<br>• null<br><br>**Note.** Default value is null. null is treated as false. |
| intervalDataRecalculation | boolean | N | Indication for the recalculation of objects in the "Net billing" accounting scheme. Possible meanings:<br><br>• TRUE<br>• FALSE<br>• NULL<br><br>**Note.** Default value is null. null is treated as false. |
| intervalDataDetailed | boolean | N | Indication of whether object in "Net billing" accounting scheme detailed information should be retrieved. Possible meanings:<br><br>• true – a detailed view will be returned (the consumption object and all its power plant objects)<br>• false – an aggregated view will be returned (the consumption object without power plant objects)<br>• null<br><br>**Note.** Default value is null. null is treated as false. |

#### 7.3.3.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.4 POST /gateway/order/v2/{orderType}

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/{orderType} |
| **Description** | Method will order the chosen report. |
| **Parameter** | URL parameters: *orderType*. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "consumerCode": "string", "personCode": "string", "objectNumbers": [ "string" ], "contractType": "string" } |
| **JSON response** | { "orderId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The report of the specified object can be ordered only if the object was or is owned for the supplier in the chosen period. Checking whether the objects were valid with the supplier during the specified period. | 2001 | There are no owned objects for the selected period or other specified search parameters. | dateFrom, dateTo, consumerCode, objectNumber, personCode |
| One or more request parameters are required. | 1001 | One or more request parameters are required. | dateFrom, dateTo |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Start and end dates are required. | 1005 | Dates are required. | dateFrom, dateTo |
| The date from cannot be later than the current date but can be equal. | 2003 | Date from cannot be later than the current date. | dateFrom |
| The report order can be done only for one reporting period (one month), if attributes "consumerCode", "personCode" or "objectNumbers" is not specified. | 2011 | The report without specifying the consumer code, person code and object number can only be ordered for 1 reporting period. | dateFrom dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be specified. | objectNumbers |
| If "consumerCode" and / or "personCode" and / or "objectNumbers" are specified, then the report can be ordered for a maximum one year (12 reporting periods). | 2025 | The report with specified parameters can be ordered from 1 to 12 reporting periods. | dateFrom,dateTo, personCode, consumerCode, objectNumbers |

#### 7.3.4.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderType *(path)* | string | Y | The method is used for specified report type. Possible meanings:<br>• bill-2s2s-b2b - Billing report for 2S2S model B2B<br>• bill-bss-b2b - Billing report for BSS model B2B<br>• bill-bss-b2c - Billing report for BSS model B2C |

#### 7.3.4.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| consumerCode | string (20) | N | Consumer code. |
| personCode | string (20) | N | Person or the company code. |
| objectNumbers | String | N | Object numbers. |
| contractType | string | N | Contract type. Possible meanings:<br>• SKMS<br>• SBTS |

#### 7.3.4.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.5 GET /gateway/order/{orderId}/data-hr-15min-obj-lvl

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-hr-15min-obj-lvl |
| **Description** | The method is designed to obtain fifteen minute / hour report data. |
| **Parameters** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objecBstId": integer,<br>"objectNumber": "string",<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "string",<br>"powerPlantObjectNumber": "string",<br>"powerPlantType": "string",<br>"consumptions": [<br>{<br>"consumptionTime": "string",<br>"amount": number, |

| | |
|---|---|
| | "valueType": "string",<br>"usageType": "string",<br>"graphVersion": "string"<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.5.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.5.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consumerCode | string | Y | Consumer code. |
| personName | string | Y | Person name / company name. |
| personSurname | string | Y | Person surname. |
| objectBsId | integer | Y | Object identification number (ID). |
| objectNumber | string | Y | Object number. |
| consumptionCategories: [] | | | |
| consumptionCategory | string | Y | Consumption category. Possible meanings:<br>• P+<br>• P- |

| | | | |
|---|---|---|---|
| | | | • Q+<br>• Q- |
| powerPlantObjectNumber | string | N | Power plant object number, which has "Net billing" accounting scheme.<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData": **true** AND "intervalDataDetailed": **true**. |
| powerPlantType | string | N | Type of the power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData": **true** AND "intervalDataDetailed": **true**. |
| consumptionCategories.consumptions: [] | | | |
| consumptionTime | string (dateTime) | Y | Consumption time. |
| amount | number | Y | Consumption amount in kWh / kVArh. |
| valueType | string | Y | Consumption value type. Possible meanings:<br><br>• EST – estimated<br>• VAL – validated |
| usageType | string | N | Reading usage type (only for object, which has "Net billing" accounting scheme). Possible meanings:<br><br>• B – Billing<br>• D – Daily |

| | | | |
|---|---|---|---|
| | | | **Note:** Filled in if attributes were selected when ordering the report: "intervalData": **true**. |
| graphVersion | string (dateTime) | N | Calculated version of the “Net billing” accounting scheme graph.<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData": **true**. |

### 7.3.6 GET /gateway/order/{orderId}/data-hr-15min-mtr-lvl

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-hr-15min-mtr-lvl |
| **Description** | The method is designed to obtain fifteen minute / hour report data. |
| **Parameters** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party’s authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectBsId": integer,<br>"objectNumber": "string",<br>"meters": [<br>{<br>"meterNumber": "string",<br>"categories": [<br>{<br>"consumptionCategory": "string",<br>"consumptions": [ |

| | |
|---|---|
| | <pre>{<br>"consumptionTime": "string",<br>"amount": number,<br>"valueType": "string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.6.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.6.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consumerCode | string | Y | Consumer code. |
| personName | string | Y | Person name / company name. |
| personSurname | string | Y | Person surname. |
| objectBsId | integer | Y | Object identification number (ID). |
| objectNumber | string | Y | Object number. |
| meters: [] | | | |
| meterNumber | string | Y | Meter number of the object. |
| consumptionCategories: [] | | | |
| consumptionCategory | string | Y | Consumption category. Possible meanings:<br>• P+ |

| | | | |
|---|---|---|---|
| | | | • P-<br>• Q+<br>• Q- |
| consumptionCategories.consumptions: [] | | | |
| consumptionTime | string (dateTime) | Y | Consumption time. |
| amount | number | Y | Consumption amount in kWh / kVArh. |
| valueType | sttring | Y | Consumption value type. Possible meanings:<br>• EST – estimated<br>• VAL – validated |

### 7.3.7 GET /gateway/order/{orderId}/bill-2s2s-b2b

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/bill-2s2s-b2b |
| **Description** | The method is used to obtain 2s2s report data. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"vatInvoiceNumber": "string",<br>"vatInvoiceSeries": "string",<br>"objects": [<br>{<br>"contractType": "string",<br>"consumerCode": "string", |

```
            "personCode": "string",
            "personName": "string",
            "personSurname": "string",
            "objectNumber": "string",
            "objectName": "string",
            "objectTypeName": "string",
            "objectAddress": "string",
            "autoMetersAmount": integer,
            "products": [
              {
                "billingPeriod": "string",
                "productCode": "string",
                "productName": "string",
                "productType": "string",
                "consumptionCategory": "string",
                "consumptionAmount": number,
                "unit": "string",
                "oldIndependentSupplier": "string",
                "generatingObjectType": "string",
                "accountingScheme": "string",
                "generatingGroup": integer,
                "generatingObjectPriorityGroup": integer,
                "tariffPlan": "string",
                "permitablePowerConsumption": number,
                "permitablePowerGeneration": number,
                "productConsumptionType": "string",
                "accumulatedPeriod": "string",
                "usedPowerPlant": {
                  "powerPlantObjectNumber": "string",
                  "generatingPower": number
                }
              }
            ],
            "objectId": integer
          }
        ]
    }
```

| | |
|---|---|
| | ] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

#### 7.3.7.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.7.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| vatInvoiceNumber | string | Y | VAT invoice number. |
| vatInvoiceSeries | string | Y | VAT invoice series. |
| objects: [] - *A list of objects associated with the invoice.* | | | |
| contractType | string | Y | Contract type. Possible meanings:<br>• SKMS<br>• SBTS |
| consumerCode | string | Y | Consumer code. |
| personCode | string | Y | Contract owner / tenant person / company code. |
| personName | string | Y | Contract owner / tenant name / company name. |
| personSurname | string | N | Contract owner / tenant surname. |
| objectNumber | string | Y | Object number. |
| objectName | string | Y | Object name. |
| objectTypeName | string | Y | Object type. |

| | | | |
|---|---|---|---|
| objectAddress | string | Y | Object address. |
| autoMetersAmount | integer | Y | Total number of remotely readable or smart metering devices installed at the object. |
| objects.products: [] – *A list of products associated with an object.* | | | |
| billingPeriod | string (dateTime) | Y | Month in which electricity consumption is recorded. |
| productCode | string | Y | The code of product. |
| productName | string | Y | The product name. |
| productType | string | Y | Product type. |
| consumptionCategory | string | Y | Category of the consumption energy. |
| consumptionAmount | number | Y | The amount of the consumption. |
| unit | string | Y | The unit of the product. |
| oldIndependentSupplier | string | Y | Previous supplier of the object. |
| generatingObjectType | string | Y | Generating consumer type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING<br><br>**Note.** Generating consumer accounting scheme will be filled only when generating consumer type is 'G' or 'N ' and product type is VNKGEN. |
| generatingGroup | integer | N | The group identifier of the generating user. |
| generatingObjectPriorityGroup | integer | N | The priority of the generating user group object. |
| tariffPlan | string | Y | The tariff plan of object. |
| permitablePowerConsumption | number | Y | Permittable power consumption in the object, kW. |

| | | | |
|---|---|---|---|
| permitablePowerGeneration | number | Y | Permittable power generation in the object, kW. |
| productConsumptionType | string | N | Type of the product consumption. Possible meanings:<br><br>• AMS - Subscription fee<br>• FGS - Contractual fixed power consumption parameters<br>• GGS - Generated power<br>• LGS - Permissible power<br>• REPS - Contractual reactive electricity parameters.<br>• SPA - According to the act<br>• SPR - According to readings<br>• STA - According to rules<br>• TSPS - Contractual technological cost parameters.<br>• VAP - VIAP accounting parameters<br>• SPP - According to parameters |
| accumulatedPeriod | string (date) | N | The period during which the amount of accumulated electricity:<br><br>• was loaded from another supplier / contract (product name - Įkeltas sukauptas kiekis (VNKS))<br>• was transferred to another supplier / contract (product name - Iškeltas sukauptas kiekis (VNKS)) |
| products.usedPowerPlant: {} - *The power plant used for generating electricity*.<br>**Note**. The value is filled in only when the product is VNKGEN (product name 'El. energijos pateiktas kiekis'), in all other cases usedPowerPlant will be null. | | | |
| powerPlantObjectNumber | string | N | The number identifying the power plant object. |
| generatingPower | number | N | Power of generating object. |
| | | | |
| objectId | integer | Y | Object Id. |

### 7.3.8 GET /gateway/order/{orderId}/bill-bss-b2c

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/bill-bss-b2c |
| **Description** | The method is used to obtain b2c report data. |

| | |
|---|---|
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"customerId": "string",<br>"clientId": "string",<br>"clientName": "string",<br>"clientAddress": "string",<br>"objectId": integer,<br>"objectNumber": "string",<br>"objectName": "string",<br>"objectType": "string",<br>"generatingCustomer": boolean,<br>"objectAddress": "string",<br>"agreementType": "string",<br>"agreementModel": "string",<br>"agreementFrom": "string",<br>"agreementTo": "string",<br>"generatingGroup": integer,<br>"generatingObjectPriorityGroup": integer,<br>"permitablePowerConsumption": number,<br>"permitablePowerGeneration": number,<br>"installedGeneratingPower": number,<br>"installedConsumptionPower": number,<br>"metersAmount": integer,<br>"autoMetersAmount": integer,<br>"reportingPeriod": "string",<br>"billingPeriod": "string",<br>"supplyState": "string",<br>"supplyStateFrom": "string",<br>"supplyStateTo": "string",<br>"metersNumber": "string", |

```
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"service": "string",
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"readingsSubmitDate": "string",
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"unaccountedConsumptionActTo": "string",
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"consumptionConversionActCreateDate": "string",
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"consumptionStateFrom": "string",
"consumptionStateTo": "string",
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"tariffPlanChangeDate": "string",
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"energyObtainedDateFrom": "string",
"powerPlantCapacityDateTo": "string",
"energyObtainedDateTo": "string",
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"ddConsumptionAmount": number,
"ddViapConsumptionAmount": number,
"ddSppdConsumptionAmount": number,
"nkConsumptionAmount": number,
```

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"accumulatedBeginningConsumptionAmount": number,
"accumulatedEndConsumptionAmount": number,

```
"accumulatedUploadedConsumptionAmount": number,
"accumulatedRaisedConsumptionAmount": number,
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"oldIndependentSupplier": "string",
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"energyObtainedConsumptionAmount": number,
"operatorGridElectricityConsumptionAmount": number,
"clientGridElectricityConsumptionAmount": number,
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"d1SppdUnit": "string",
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"d2ViapUnit": "string",
"d2SppdUnit": "string",
"n1Unit": "string",
"n1ViapUnit": "string",
"n1SppdUnit": "string",
"vkConsumedElectricityUnit": "string",
"ddConsumedElectricityUnit": "string",
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"d1ConsumedElectricityUnit": "string",
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```

```
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"gaPowerDateTo": "string",
"gaConsumptionAmount": number,
"vgConsumptionAmount": number,
"gaUnit": "string",
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```

| | |
|---|---|
| | "gaPriceEur": number,<br>"gaPriceEurVAT": number,<br>"vgPriceEur": number,<br>"vgPriceEurVAT": number,<br>"gaDiscount": number,<br>"vgDiscount": number,<br>"gaAmountNoVAT": number,<br>"gaAmount": number,<br>"vgAmountNoVAT": number,<br>"vgAmount": number,<br>"gaIncludedVAT": "string",<br>"vgIncludedVAT": "string"<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

| | | | |
|---|---|---|---|
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.8.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.8.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| Initial response description is provided in documentation *Instructions for Connecting and Using DataHub v3.4, Chapter 5.2.2 Accounting Data Pack of Commercial Customer at Meters Level with BSS*. Additional attributes are described below: | | | |
| gridSuppliedElectricityViapQuantity | number | N | Quantity of electricity supplied to the grid and settled at the tariff established under the PSO (Public Service Obligation) scheme. |
| gridSuppliedElectricityViapUnit | string | N | Specifies the unit of measure used to express the quantity of electricity supplied to the grid and settled at the PSO tariff. |
| gridSuppliedElectricityViapPriceExclVAT | number | N | Specifies the PSO price in euros, excluding VAT, for electricity supplied to the grid. |
| gridSuppliedElectricityViapPriceInclVAT | number | N | Specifies the PSO price in euros, including VAT, for electricity supplied to the grid. |

| | | | |
|---|---|---|---|
| gridSuppliedElectricityViapAmountExclVAT | number | N | Specifies the total amount in euros excluding VAT for electricity supplied to the grid and settled at the PSO price. |
| gridSuppliedElectricityViapAmount | number | N | Specifies the total amount in euros for electricity supplied to the grid and settled at the PSO price. |
| gridSuppliedElectricityViapAmountIncludesVAT | boolean | N | Indicates whether the amount (EUR) is reported inclusive or exclusive of VAT. |
| gaPower | number | N | Power component quantity. |
| gaPowerDateFrom | string (date) | N | Power component in the period from a certain date. |
| gaPowerDateTo | string (date) | N | Power component in the period up to a certain date. |
| gaConsumptionAmount | number | N | Power of the serviced object in kW, for which a fee is paid. |
| vgConsumptionAmount | number | N | Amount of exceeded power consumed kW. |
| gaUnit | string | N | Power components Unit, kW. |
| vgUnit | string | N | A unit of measurement of the exceeded power consumption, kW per month. |
| gaPriceEur | number | N | The unit price of the power component EUR without VAT. |
| gaPriceEurVAT | number | N | The unit price of the power component EUR with VAT. |
| vgPriceEur | number | N | Exceeded power consumption unit price EUR without VAT. |
| vgPriceEurVAT | number | N | Exceeded power consumption unit price EUR with VAT. |
| gaDiscount | number | N | Power components Discount %. |
| vgDiscount | number | N | Exceeded power consumption Discount %. |
| gaAmountNoVAT | number | N | The price of the power of the serviced object in EUR without VAT. |
| gaAmount | number | N | The price of the power of the serviced object in EUR with VAT. |
| vgAmountNoVAT | number | N | The price of the exceeded power consumption of serviced object in EUR without VAT. |
| vgAmount | number | N | The price of the exceeded power consumption of serviced object in EUR with VAT. |

| | | | |
|---|---|---|---|
| gaIncludedVAT | string | N | The field specifies whether the "Amount with VAT" field will be displayed with VAT. |
| vgIncludedVAT | string | N | The field specifies whether the "Amount with VAT" field will be displayed with VAT. |

### 7.3.9 GET /gateway/order/{orderId}/bill-bss-b2b

| | |
|---|---|
| **Endpoint** | GET/gateway/order/{orderId}/bill-bss-b2b |
| **Description** | The method is used to obtain b2b report data. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"customerId": "string",<br>"clientId": "string",<br>"clientName": "string",<br>"clientAddress": "string",<br>"objectId": integer,<br>"objectNumber": "string",<br>"objectName": "string",<br>"objectType": "string",<br>"generatingCustomer": true,<br>"objectAddress": "string",<br>"agreementType": "string",<br>"agreementModel": "string",<br>"agreementFrom": "string",<br>"agreementTo": "string", |

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"conversionAct": true,
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"vkMissingEnergyViapPriceEur": number,
"vkMissingEnergySppdPriceEur": number,
"ddMissingEnergyPriceEur": number,
"ddMissingEnergyViapPriceEur": number,
"ddMissingEnergySppdPriceEur": number,
"nkMissingEnergyPriceEur": number,
"nkMissingEnergyViapPriceEur": number,
"gridSuppliedElectricityViapPriceExclVAT": number,
"nkMissingEnergySppdPriceEur": number,
"maMissingEnergyPriceEur": number,
"maMissingEnergyViapPriceEur": number,
"vdMissingEnergyPriceEur": number,
"vdMissingEnergyViapPriceEur": number,
"svMissingEnergyPriceEur": number,
"svMissingEnergyViapPriceEur": number,
"miMissingEnergyPriceEur": number,
"miMissingEnergyViapPriceEur": number,
"vkMissingEnergyDiscountPriceEur": number,
"ddMissingEnergyDiscountPriceEur": number,
"nkMissingEnergyDiscountPriceEur": number,

"powerPlantCapacityPriceEur": number,
"gaDiscount": number,
"vkDiscount": number,
"vkViapDiscount": number,
"vkSppdDiscount": number,
"vkDiscountDiscount": number,
"ddDiscount": number,
"ddViapDiscount": number,
"ddSppdDiscount": number,
"ddDiscountDiscount": number,
"nkDiscount": number,
"nkViapDiscount": number,
"nkSppdDiscount": number,
"nkDiscountDiscount": number,
"maDiscount": number,
"maViapDiscount": number,
"vdDiscount": number,
"vdViapDiscount": number,
"svDiscount": number,
"svViapDiscount": number,
"miDiscount": number,
"miViapDiscount": number,
"rvDiscount": number,
"rgDiscount": number,
"vgDiscount": number,
"reliability1Discount": number,
"reliability2Discount": number,
"reliability3Discount": number,
"technologicalCostsViapDiscount": number,
"technologicalCostsDiscount": number,
"generalInterestDiscount": number,
"vkPayingRecoveredEnergyDiscount": number,
"vkPayingRecoveredMixedDiscount": number,
"vkMissingEnergyDiscount": number,
"vkMissingEnergyViapDiscount": number,
"vkMissingEnergySppdDiscount": number,
"vkMissingEnergyDiscountDiscount": number,

"gaAmountNoVAT": number,
"vkAmountNoVAT": number,
"vkViapAmountNoVAT": number,
"vkSppdAmountNoVAT": number,
"vkDiscountAmountNoVAT": number,
"ddAmountNoVAT": number,
"ddViapAmountNoVAT": number,
"ddSppdAmountNoVAT": number,
"ddDiscountAmountNoVAT": number,
"nkAmountNoVAT": number,
"nkViapAmountNoVAT": number,
"nkSppdAmountNoVAT": number,
"nkDiscountAmountNoVAT": number,
"maAmountNoVAT": number,
"maViapAmountNoVAT": number,
"vdAmountNoVAT": number,
"vdViapAmountNoVAT": number,
"svAmountNoVAT": number,
"svViapAmountNoVAT": number,
"miAmountNoVAT": number,
"miViapAmountNoVAT": number,
"rvAmountNoVAT": number,
"rgAmountNoVAT": number,
"vgAmountNoVAT": number,
"reliability1AmountNoVAT": number,
"reliability2AmountNoVAT": number,
"reliability3AmountNoVAT": number,
"technologicalCostsViapAmountNoVAT": number,
"technologicalCostsAmountNoVAT": number,
"generalInterestAmountNoVAT": number,
"vkPayingRecoveredEnergyAmountNoVAT": number,
"ddPayingRecoveredEnergyAmountNoVAT": number,
"nkPayingRecoveredEnergyAmountNoVAT": number,
"maPayingRecoveredEnergyAmountNoVAT": number,
"vdPayingRecoveredEnergyAmountNoVAT": number,
"svPayingRecoveredEnergyAmountNoVAT": number,
"miPayingRecoveredEnergyAmountNoVAT": number,

| | |
|---|---|
| | "vkPayingRecoveredMixedAmountNoVAT": number,<br>"ddPayingRecoveredMixedAmountNoVAT": number,<br>"nkPayingRecoveredMixedAmountNoVAT": number,<br>"maPayingRecoveredMixedAmountNoVAT": number,<br>"vdPayingRecoveredMixedAmountNoVAT": number,<br>"svPayingRecoveredMixedAmountNoVAT": number,<br>"miPayingRecoveredMixedAmountNoVAT": number,<br>"vkMissingEnergyAmountNoVAT": number,<br>"vkMissingEnergyViapAmountNoVAT": number,<br>"vkMissingEnergySppdAmountNoVAT": number,<br>"ddMissingEnergyAmountNoVAT": number,<br>"ddMissingEnergyViapAmountNoVAT": number,<br>"ddMissingEnergySppdAmountNoVAT": number,<br>"nkMissingEnergyAmountNoVAT": number,<br>"nkMissingEnergyViapAmountNoVAT": number,<br>"gridSuppliedElectricityViapAmountExclVAT": number,<br>"nkMissingEnergySppdAmountNoVAT": number,<br>"maMissingEnergyAmountNoVAT": number,<br>"maMissingEnergyViapAmountNoVAT": number,<br>"vdMissingEnergyAmountNoVAT": number,<br>"vdMissingEnergyViapAmountNoVAT": number,<br>"svMissingEnergyAmountNoVAT": number,<br>"svMissingEnergyViapAmountNoVAT": number,<br>"miMissingEnergyAmountNoVAT": number,<br>"miMissingEnergyViapAmountNoVAT": number,<br>"vkMissingEnergyDiscountAmountNoVAT": number,<br>"ddMissingEnergyDiscountAmountNoVAT": number,<br>"nkMissingEnergyDiscountAmountNoVAT": number,<br>"powerPlantCapacityAmountNoVAT": number,<br>"permanentHomePlusAmountNoVAT": number,<br>"permanentHomeAmountNoVAT": number<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.9.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.9.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| Initial response description is provided in documentation *Instructions for Connecting and Using DataHub v3.4, Chapter 5.2.3 Accounting Data Pack of Household Customers at BSS model*. Additional attributes are described below: | | | |
| gridSuppliedElectricityViapQuantity | number | N | Quantity of electricity supplied to the grid and settled at the tariff established under the PSO (Public Service Obligation) scheme. |
| gridSuppliedElectricityViapUnit | string | N | Specifies the unit of measure used to express the quantity of electricity supplied to the grid and settled at the PSO tariff. |
| gridSuppliedElectricityViapPriceExclVAT | number | N | Specifies the PSO price, in euros excluding VAT, applicable to electricity supplied to the grid. |
| gridSuppliedElectricityViapAmountExclVAT | number | N | Specifies the total amount in euros excluding VAT for electricity supplied to the grid and settled at the PSO price. |

### 7.3.10 GET /gateway/order/{orderId}/count

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/count |
| **Description** | Method which will return count (number), how many items Supplier will get in ordered report (reports could have more than 1 item, so it is List). It should be used when supplier need to split data in few portions. This response should be used in reports' GET methods request, where Supplier can provide method parameters information. |
| **Parameters** | URL parameters: *orderId.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | {<br>"count": integer<br>} |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

#### 7.3.10.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |

#### 7.3.10.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| count | integer | Y | Number of rows, objects, accounts, depending on the selected report. |

### 7.3.11 POST /gateway/order/v2/data-hr-15min-mtr-lvl-acr

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/data-hr-15min-mtr-lvl-acr |
| **Description** | The method is designed for ordering data for automated quantities at the counter level according to the rights granted. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "consumptionCategories": [ "string", "string" ], "objectNumbers": [ "string", "string" ], "interval": "string" } |
| **JSON response** | { "orderId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]*, was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| Report can be ordered maximum for 12 months. | 2013 | The report can only be ordered for 12 months or less. | dateFrom<br>dateTo |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| The object must have a valid access right. | 2020 | Object *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not have a access right or access right is expired. | objectNumbers |
| A maximum of 500 objects can be submitted in a report order | 2021 | A maximum of 500 objects can be submitted in a report order | objectNumbers |
| The meaning of the "**o**bjectNumber**"** notification cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |

#### 7.3.11.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| consumptionCategory | list of strings | Y | The consumption category. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | string | Y | Object number. |
| interval | string | Y | Consumption interval. Possible meanings:<br>• HOUR<br>• QUARTER |

#### 7.3.11.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.12 GET /gateway/order/{orderId}/data-hr-15min-mtr-lvl-acr

| Endpoint | GET /gateway/order/{orderId}/data-hr-15min-mtr-lvl-acr |
|---|---|

| | |
|---|---|
| **Description** | The method for receive the order report " Automated quantities at the meter level based on granted rights". |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **Endpoint** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objecBstId": integer,<br>"objectNumber": "string",<br>"meters": [<br>{<br>"meterNumber": "string",<br>"categories": [<br>{<br>"consumptionCategory": "string",<br>"consumptions": [<br>{<br>"consumptionTime": "string",<br>"amount": number,<br>"valueType":"string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>] |
| **Endpoint** | Example and description of JSON error response can be found at the following source: JSON error response |

| | |
|---|---|

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.12.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.12.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person code. |
| personName | string | Y | Person name / company name. |
| personSurname | string | Y | Person surname. |
| objectBsId | integer | Y | Object identification (ID). |
| objectNumber | string | Y | Object number. |
| meters: [] | | | |
| meterNumber | string | Y | Meter number of the object. |
| meter.categories: [] | | | |
| consumptionCategory | string | Y | Consumption category. Possible meanings:<br>• P+<br>• P-<br>• Q+ |

| | | | |
|---|---|---|---|
| | | | • Q- |
| meter.categories.consumtions: [] | | | |
| consumptionTime | string (dateTime) | Y | Consumption time. |
| amount | number | Y | Consumption amount. |
| valueType | string | Y | Consumption value type. Possible meanings:<br>• EST – estimated<br>• VAL – validated |

### 7.3.13 POST /gateway/order/v2/data-hr-15min-obj-lvl-acr

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v2/data-hr-15min-obj-lvl-acr |
| **Description** | The method is designed for ordering data for automated quantities at the object level according to the rights granted. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "consumptionCategories": [ "string", "string" ], "objectNumbers": [ "string", "string" ], "interval": "string", |

| | |
|---|---|
| | "netBilling": {<br>"intervalData": boolean,<br>"intervalDataDetailed": boolean<br>}<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and /or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]*, was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| Report can be ordered maximum for 12 months. | 2013 | The report can only be ordered for 12 months or less. | dateFrom<br>dateTo |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom<br>dateTo |

| | | | |
|---|---|---|---|
| The object must have a valid access right. | 2020 | Object *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not have a access right or access right is expired. | objectNumbers |
| A maximum of 500 objects can be submitted in a report order | 2021 | A maximum of 500 objects can be submitted in a report order | objectNumbers |
| The meaning of the "objectNumber" cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| Parameter below can only be specified, if netBilling "**intervalData**" is **true**:<br>• "intervalDataDetailed"<br>**Note.** Without specifying parameter, i.e., specifying **null** will treat as **false**. | 2029 | An option to choose the type of power plant data view is only possible if the order is submitted for the object, which has "Net billing" accounting scheme. | netBilling, intervalData, intervalDataDetailed |

#### 7.3.13.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| consumptionCategory | list of strings | Y | The consumption category. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | list of strings | Y | Object numbers.<br>Please note that Net Billing data collection (*netBilling.intervalData = true*) depends on the number of objects included in each request. For more details, please refer to the Net Billing Usage Recommendations section. |

| | | | |
|---|---|---|---|
| interval | string | Y | Consumption interval. Possible meanings:<br><br>• HOUR<br>• QUARTER |
| netBilling: {} | | | |
| intervalData | boolean | N | Indication that the object is in "Net billing" accounting scheme. Possible meanings:<br><br>• true<br>• false<br>• null<br><br>**Note.** Default value is null. null is treated as false. |
| intervalDataDetailed | boolean | N | Indication of whether object in "Net billing" accounting scheme detailed information should be retrieved. Possible meanings:<br><br>• true – a detailed view will be returned (the consumption object and all its power plant objects)<br>• false – an aggregated view will be returned (the consumption object without power plant objects)<br>• null<br><br>**Note.** Default value is null. null is treated as false. |

#### 7.3.13.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.14 GET /gateway/order/{orderId}/data-hr-15min-obj-lvl-acr

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-hr-15min-obj-lvl-acr |
| **Description** | The method for receive the order report "Automated quantities at the object level according to the granted rights". |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | {<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objecBstId": integer,<br>"objectNumber": "string",<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "string",<br>"powerPlantObjectNumber": "string",<br>"powerPlantType": "string",<br>"consumptions": [<br>{<br>"consumptionTime": "string",<br>"amount": number,<br>"valueType": "string",<br>"usageType": "string",<br>"graphVersion": "string"<br>}<br>]<br>}<br>]<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.14.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.14.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person code. |
| personName | string | Y | Person name / company name. |
| personSurname | string | Y | Person surname. |
| objecBstId | integer | Y | Object identification number (ID). |
| objectNumber | string | Y | Object number. |
| consumtionCategories: [] | | | |
| consumptionCategory | string | Y | Consumption category. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| powerPlantObjectNumber | string | N | Power plant object number, which has "Net billing" accounting scheme.<br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData" is **true** AND "intervalDataDetailed" is **true**. |
| powerPlantType | string | N | Type of the power plant. Possible meanings:<br>• A – Waste fuel.<br>• B – Biomass.<br>• H – Hydroelectric<br>• K – Other.<br>• S – Solar.<br>• T – TEC.<br>• V – Wind.<br>• P – Storage device.<br>• I – Fossil.<br>• D – Biogas. |

| | | | |
|---|---|---|---|
| | | | • R – Hybrid generation.<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData" is **true** AND "intervalDataDetailed" is **true**. |
| consumptionCategories.consumtions: [] | | | |
| consumptionTime | string (dateTime) | Y | Consumption time. |
| amount | number | Y | Consumption amount. |
| valueType | string | Y | Consumption value type. Possible meanings:<br><br>• EST – estimated<br>• VAL – validated |
| usageType | string | N | Reading usage type (only for object, which has "Net billing" accounting scheme). Possible meanings:<br><br>• B – Billing<br>• D – Daily<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData" is **true**. |
| graphVersion | string (dateTime) | N | Calculated version of the “Net billing” accounting scheme graph.<br><br>**Note:** Filled in if attributes were selected when ordering the report: "intervalData" is **true**. |

### 7.3.15 POST /gateway/order/data-sum-obj-lvl-acr

| | |
|---|---|
| **Endpoint** | POST /gateway/order/data-sum-obj-lvl-acr |
| **Description** | The method is for order a report of total quantities according to the granted rights. |
| **Parameter** | No parameters. |

| | |
|---|---|
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| The object must have a valid access right. | 2020 | Object *[objectNumbers (if there is more than one object, objects must be separated by the semicolon)]* does not have a access right or access right is expired. | objectNumbers |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |

| | | | |
|---|---|---|---|
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| • "dateFrom" - must be the first day of the month.<br>• "dateTo" - must be the last day of the month, unless "dateTo" coincides with the current month, then must be current date. | 2009 | Date from must be the first day of the month. Date to must be the last day of the month, unless date to coincides with the current day. | dateFrom, dateTo |

#### 7.3.15.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| objectNumbers | list of strings | Y | Object numbers. |

#### 7.3.15.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.16 GET /gateway/order/{orderId}/data-sum-obj-lvl-acr

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-sum-obj-lvl-acr |
| **Description** | The method is used to obtain the requested "Aggregate quantities by entitlement" report. |
| **Parameters** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectBsId": integer,<br>"objectNumber": "string",<br>"products": [<br>{<br>"productCode": "string",<br>"productName": "string",<br>"productType": "string",<br>"unit": "string",<br>"consumptionCategories": [<br>{<br>"category": "string",<br>"consumptions": [<br>{<br>"billingPeriod": "string",<br>"consumptionAmount": number,<br>"productConsumptionType": "string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>] |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

#### 7.3.16.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.16.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person code. |
| personName | string | Y | Person name. |
| personSurname | string | N | Person surname. |
| objectBsId | integer | Y | Object identification number (ID). |
| objectNumber | string | Y | Object number. |
| products: [] | | | |
| productCode | string | N | Product code. |
| productName | string | N | Product name. |
| productType | string | N | Product type. |
| unit | string | N | The unit of the product. |
| products.consumptionCategories: [] | | | |
| category | string | Y | Consumption category. |
| products.consumptionCategories.consumptions: [] | | | |
| billingPeriod | string (date) | Y | Month in which electricity consumption is recorded. |
| consumptionAmount | number | Y | The amount of the consumption |
| productConsumptionType | string | N | Type of the product consumption. Possible meanings:<br>• SPA - According to the act<br>• SPR - According to readings<br>• STA - According to rules |

| | | | |
|---|---|---|---|
| | | | • SPP - According to parameters |

### 7.3.17 POST /gateway/order/data-hr-15min-history-changes

| | |
|---|---|
| **Endpoint** | POST /gateway/order/data-hr-15min-history-changes |
| **Description** | The method is intended for ordering "Net billing accounting scheme changes of interval data" report. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|

| | | | |
|---|---|---|---|
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateFrom |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]*, was not found or the meter of object is not automated. | objectNumber |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumber |
| The meaning of the "objectNumber" notification cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| Data for selected report can be ordered if report is not locked. | 2031 | Data is not currently available for the selected report. | dateFrom |
| Report can be ordered maximum for 3 accounting months, excluding the current month.<br>For example:<br>• If current date **2024-06-28** (month 06 is excluded and 3 full calendar months are counted in the past 05, 04, 03) → maximum order data from value must be 2024-03-01.<br>If date from of the report is selected less than 2024-03-01 → the system displays error message. | 2033 | Report can be ordered maximum for 3 previous accounting months. | dateFrom |
| By default, order "dateTo" is set to the current date. | | | |

#### 7.3.17.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The date from which we want to obtain information on possible recalculations of the objects. |
| objectNumbers | list of strings | N | Objects for which the system should check potential recalculations. |

| | | | |
|---|---|---|---|
| | | | Please note that the performance of data collection depends on the number of objects included in each request. For best results, please include as many objects as possible.<br>For more details, refer to the Net Billing Usage Recommendations section. |

#### 7.3.17.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.18 GET /gateway/order/{orderId}/data-hr-15min-history-changes

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-hr-15min-history-changes |
| **Description** | The method is designed to obtain "Net billing accounting scheme changes of interval data" report. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"periodsWithChanges": [<br>{ |

| | |
|---|---|
| | <pre>"billingPeriod": "string",<br>"reasons": [<br>"string",<br>"string"<br>]<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

### 7.3.18.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.18.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person / company code. |
| personName | string | Y | Person name / company name. |
| personSurname | string | N | Person surname. |
| objectNumber | string | Y | Object number. |
| periodWithChanges: [] | | | |
| billingPeriod | date | Y | Accounting period which has possible recalculations for consumption object. |
| reasons | list of strings | Y | Reasons for change:<br>• GENERATION_CHANGE (examples: power plant power changes, meter reading changes, permissible power generation changes)<br>• OWNER_CHANGE<br>• SUPPLIER_CHANGE |

### 7.3.19 POST /gateway/order/balance-data

| | |
|---|---|
| **Endpoint** | POST /gateway/order/balance-data |
| **Description** | The method is intended for ordering balance data report. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"involvedPartyPermissionId": integer,<br>"dateFrom": "string",<br>"dateTo": "string",<br>"interval": "string"<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |

| | | | |
|---|---|---|---|
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A report can be requested for a maximum period of one accounting month. | 2024 | The report can only be ordered for 1 accounting month or less. | dateFrom, dateTo |
| A report with permission can be ordered for the current month and up to 12 full previous months | 3101 | A report with permission can be ordered for the current month and up to 12 full previous months | involvedPartyPermissionId dateFrom |
| If a permission Id is specified, it must be valid. | 3102 | The specified permission was not found. | involvedPartyPermissionId |

#### 7.3.19.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| involvedPartyPermissionId | integer | N | Identification number of the granted permission.<br><br>**Note.** The attribute "involvedPartyPermissionId" is only filled in if permission has been received from another interested party to order the relevant data. |
| dateFrom | string (date) | Y | The beginning date (inclusive) of the reporting period. |
| dateTo | string (date) | Y | The end date of the reporting period. |
| interval | string (date) | Y | Consumption interval. Possible meanings:<br><br>• HOUR<br>• QUARTER |

#### 7.3.19.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.20 GET /gateway/order/{orderId}/balance-data

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/balance-data |
| **Description** | The method is used to obtain the report "Balance data" |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | { "timeSeriesData": [ { "intervalDateTime": "string", "valueOfGeneration": number, "valueOfConsumption": number } ] } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| Data sorted by date ascending. | | | |

#### 7.3.20.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). Default value: 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. Default value: 10 000. |

#### 7.3.20.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| timeSeriesData: [] | | | |
| intervalDateTime | string (dateTime) | Y | Date interval. |
| valueOfGeneration | number | Y | Total generated electricity in MWh. |
| valueOfConsumption | number | Y | Total consumed electricity in MWh. |

### 7.3.21 POST /gateway/order/balance-by-generation-type

| | |
|---|---|
| **Endpoint** | POST /gateway/order/balance-by-generation-type |
| **Description** | The method is intended for ordering "Balance by generation type" report. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "involvedPartyPermissionId": integer, "generationType": [ "string", "string" ], "generationCategory": [ "string", "string" ], "dateFrom": "string", "dateTo": "string", "interval": "string" } |

| | |
|---|---|
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A report can be requested for a maximum period of one accounting month. | 2024 | The report can only be ordered for 1 accounting month or less. | dateFrom, dateTo |
| A report with permission can be ordered for the current month and up to 12 full previous months | 3101 | A report with permission can be ordered for the current month and up to 12 full previous months. | involvedPartyPermissionId<br>dateFrom |
| If a permission Id is specified, it must be valid. | 3102 | The specified permission was not found. | involvedPartyPermissionId |

#### 7.3.21.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|

| | | | |
|---|---|---|---|
| involvedPartyPermissionId | integer | N | Identification number of the granted permission.<br><br>**Note.** The attribute "involvedPartyPermissionId" is only filled in if permission has been received from another interested party to order the relevant data. |
| generationType | string | N | Generation type. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass generation<br>• H – Hydroelectric generation<br>• K – Other generation<br>• S – Solar generation<br>• T – TEC generation<br>• V – Wind generation<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| generationCategory | string | N | Producer’s category. Possible meanings:<br><br>• PRODUCERS<br>• PROSUMERS<br>• UNALLOCATED<br>• REMOTE-PROSUMERS |
| dateFrom | string (date) | Y | The beginning date (inclusive) of the reporting period. |
| dateTo | string (date) | Y | The end date of the reporting period. |
| interval | string (date) | Y | Consumption interval. Possible meanings:<br><br>• HOUR<br>• QUARTER |

#### 7.3.21.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.22 GET /gateway/order/{orderId}/balance-by-generation-type

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/balance-by-generation-type |
| **Description** | The method is used to obtain the report "Balance by generation type" |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"generationType": "string",<br>"timeSeriesData": [<br>{<br>"intervalDateTime": "string",<br>"generationCategories": [<br>{<br>"generationCategory": "string",<br>"valueOfGeneration": number<br>}<br>]<br>}<br>]<br>}<br>] |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| Data sorted by date ascending. | | | |

### 7.3.22.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. The default value is 10 000. |

### 7.3.22.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| generationType | string | Y | Generation type. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass generation<br>• H – Hydroelectric generation<br>• K – Other generation<br>• S – Solar generation<br>• T – TEC generation<br>• V – Wind generation<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| timeSeriesData: [] | | | |
| intervalDateTime | string (dateTime) | Y | Date interval. |
| timeSeriesData.generationCategories: [] | | | |
| generationCategory | string | Y | Producer’s category. Possible meanings:<br>• PRODUCERS<br>• PROSUMERS<br>• UNALLOCATED<br>• REMOTE-PROSUMERS |
| valueOfGeneration | number | Y | Total generated electricity in MWh. |

### 7.3.23 POST /gateway/order/data-sum-obj-lvl

| | |
|---|---|
| **Endpoint** | POST /gateway/order/data-sum-obj-lvl |
| **Description** | The method is intended for ordering a report of total quantities. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"personCode": "string",<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| One or more request parameters are required. | 1001 | One or more request parameters are required. | personCode, objectNumbers |

| | | | |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| • "dateFrom" - must be the first day of the month.<br>• "dateTo" - must be the last day of the month unless "dateTo" coincides with the current month, then must be current date. | 2009 | Date from must be the first day of the month. Date to must be the last day of the month unless date to coincides with the current day. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |
| The meaning of the "objectNumbers" cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumbers |

#### 7.3.23.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. The reporting period start date is the first day of the month. |
| dateTo | string (date) | Y | The end of the reporting period. The reporting period end date is the last day of the month. |
| personCode | string (20) | N | Person or the company code. |
| objectNumber | list of strings | N | Object numbers. |

#### 7.3.23.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.24 GET /gateway/order/{orderId}/data-sum-obj-lvl

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-sum-obj-lvl |
| **Description** | The method is used to obtain the requested "Total quantities" report. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"products": [<br>{<br>"productCode": "string",<br>"productName": "string",<br>"productType": "string",<br>"unit": "string",<br>"consumptionCategories": [ |

| | |
|---|---|
| | {<br>"category": "string",<br>"consumptions": [<br>{<br>"billingPeriod": "string",<br>"consumptionAmount": number,<br>"productConsumptionType": "string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

| | | | |
|---|---|---|---|
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.24.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.24.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person code. |
| personName | string | Y | Person name. |
| personSurname | string | N | Person surname. |
| objectNumber | string | Y | Object number. |
| products: [] | | | |

| | | | |
|---|---|---|---|
| productCode | string | N | Product code. |
| productName | string | N | Product name. |
| productType | string | N | Product type. |
| unit | string | N | The unit of the product. |
| products.consumptionCategories: [] | | | |
| Category | string | Y | Consumption category. |
| products.consumptionCategories.consumptions: [] | | | |
| billingPeriod | string (date) | Y | Month in which electricity consumption is recorded. |
| consumptionAmount | number | Y | The amount of the consumption. |
| productConsumptionType | string | N | Type of the product consumption. Possible meanings:<br>• SPA - According to the act<br>• SPR - According to readings<br>• STA - According to rules<br>• SPP - According to parameters |

### 7.3.25 POST /gateway/order/v3/report-obj

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v3/report-obj |
| **Description** | The method is for order a report of objects. |
| **Parameters** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |

| | |
|---|---|
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"consumerCode": "string",<br>"personCode": "string",<br>"objectNumbers": [<br>"string"<br>],<br>"contractType": "string"<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| The object data pack can be ordered 36 months to the future. | 2019 | The report can be ordered 36 months to the future. | dateTo |

| | | | |
|---|---|---|---|
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |

#### 7.3.25.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning of the reporting period. |
| dateTo | string (date) | Y | The end of the reporting period. |
| consumerCode | string (20) | N | Consumer code. |
| personCode | string (20) | N | Person or the company code. |
| objectNumbers | list of strings | N | Object numbers. |
| contractType | string | N | Contract type. Possible meanings:<br>• SKMS<br>• SBTS |

#### 7.3.25.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.26 GET /gateway/order/v3/{orderId}/report-obj

| | |
|---|---|
| **Endpoint** | GET /gateway/order/v3/{orderId}/report-obj |
| **Description** | The method for used to the order report "Report of objects". |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"consumerCode": "string",<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"objectName": "string",<br>"objectType": "string",<br>"objectAddress": "string",<br>"contractType": "string",<br>"contractModel": "string",<br>"contractStart": "string",<br>"contractEnd": "string",<br>"supplierChangeNotificationSubmittedDate": "string",<br>"permitablePowerConsumption": number,<br>"permitablePowerGeneration": number,<br>"usedPowerPlantTotalPower": number,<br>"installedGeneratingPower": number,<br>"powerPlantObject": {<br>"powerPlantValidFrom": "string",<br>"powerPlantValidTo": "string",<br>"powerPlantObjectType": "string"<br>},<br>"metersAmount": integer,<br>"autoMetersAmount": integer, |

```
"smartMeterInstallationDate": "string",
"supplyState": "string",
"supplyStateFrom": "string",
"supplyStateTo": "string",
"consumptionState": "string",
"consumptionStateFrom": "string",
"consumptionStateTo": "string",
"productsAmount": integer,
"scalesAmount": integer,
"technologicalCosts": boolean,
"accountingType": "string",
"generatingGroup": integer,
"generatingObjectPriorityGroup": integer,
"generatingObjectType": "string",
"powerPlantObjects": [
  {
    "powerPlantObjectNumber": "string",
    "powerPlantType": "string",
    "generatingObjectType": "string",
    "generatingPower": number,
    "powerPlantValidFrom": "string",
    "powerPlantValidTo": "string",
    "accountingScheme": "string",
    "accountingSchemeValidFrom": "string",
    "accountingSchemeValidTo": "string",
    "accountingSchemeChangeDate": "string",
    "payoffMethod": "string",
    "payoffMethodChangeDate": "string",
  }
],
"voltage": number,
"tariffPlan": "string",
"tariffPlanChangeDate": "string",
"timeZone": "string",
"consumptionAverage": "string",
"consumptionAverageCalculationDate": "string",
"consumptionAverageCalculationMonthsCount": number,
```

| | |
|---|---|
| | "sociallyVulnerable": boolean<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.26.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

### 7.3.26.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consumerCode | string | Y | Contract owner consumer code. |
| personCode | string | Y | Person / company code. |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Contract owner surname. |
| objectNumber | string | Y | Object number. |
| objectName | string | N | Object name. |
| objectType | string | Y | Object type. |
| objectAddress | string | Y | Object address. |
| contractType | string | Y | Contract type. Possible meanings:<br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| contractModel | string | Y | Contract model of the current object at a supplier. Possible meanings: |

| | | | |
|---|---|---|---|
| | | | • BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| contractStart | string (date) | Y | Start date of entry into force of the object at a supplier. |
| contractEnd | string (date) | N | End date of entry into force of the object at a supplier. |
| supplierChangeNotificationSubmittedDate | string (date) | N | Date, when was submitted about supplier change. |
| permitablePowerConsumption | number | N | Permittable power consumption in the object, kW. |
| permitablePowerGeneration | number | N | Permittable power generation in the object, kW.<br><br>The permittable power generation value is the sum of the object's power with the value LGG. |
| usedPowerPlantTotalPower | number | N | Total permittable power generation of the object, kW.<br><br>Total permittable power generation value is the sum of the generating powers of the used power plants. |
| installedGeneratingPower | number | N | Installed generating power in the object, kW. |
| powerPlantObject: {} | | | |
| powerPlantValidFrom | string (date) | N | The object’s power plant valid from date. |
| powerPlantValidTo | string (date) | N | The object’s power plant valid to date. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device |

| | | | |
|---|---|---|---|
| | | | • I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| | | | |
| metersAmount | integer | N | Meters' amounts are counted at the level of the object. |
| autoMetersAmount | integer | N | Total number of remotely readable or smart metering devices installed at the object. |
| smartMeterInstallationDate | string (date) | N | Date of installation of the object`s smart meter. |
| supplyState | string | N | Power supply state of the object. Possible meanings:<br>• T – Supply<br>• P – Disconnected on request<br>• A – Disconnected under sanction<br>• R – Limited by sanction |
| supplyStateFrom | string (date) | N | The object's electricity supply status is valid from. |
| supplyStateTo | string (date) | N | The object's electricity supply status is valid to. |
| consumptionState | string | N | Object power consumption status code. Possible meanings:<br>• N - Temporarily not used<br>• V – Consuming<br>• A – Alleged |
| consumptionStateFrom | string (date) | N | The object's electricity consumption status is valid from. |
| consumptionStateTo | string (date) | N | The object's electricity consumption status is valid to. |
| productsAmount | integer | N | Products' amounts are counted at the level of the object. |
| scalesAmount | integer | N | Scales' amounts are counted at the level of the object. |
| technologicalCosts | boolean | N | Indicator or object according to the latest data is accounted for technological costs. |

| | | | |
|---|---|---|---|
| accountingType | string | Y | Accounting type. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates EUR<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| generatingGroup | integer | N | The group identifier of the generating user. |
| generatingObjectPriorityGroup | integer | N | The priority of the generating user group object. |
| generatingObjectType | string | N | Generating object type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer<br><br>The generating object type value is calculated based on the used power plants' generating consumer type values ('powerPlantObjects.generatingObjectType'):<br><br>• If the generating consumer type of the used power plant is G, the calculated value is G.<br>• If the generating consumer type of the used power plant is N, the calculated value is N.<br>• If the generating consumer type of the used power plant is G and N, the calculated value is G.<br>• If the object does not have any power plants in use, but the accounting type is 'ENERGY_SHARER,' the calculated value is G. |
| powerPlantObjects: [] | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| powerPlantType | string | N | Type of used power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other |

| | | | |
|---|---|---|---|
| | | | • S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| generatingPower | number | N | The power generated by assigned power plant. |
| powerPlantValidFrom | string (date) | N | Generating consumer type valid from. |
| powerPlantValidTo | string (date) | N | Generating consumer type valid to. |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| accountingSchemeValidFrom | string (date) | N | Generating consumer accounting scheme valid from. |
| accountingSchemeValidTo | string (date) | N | Generating consumer accounting scheme valid to. |
| accountingSchemeChangeDate | string (date) | N | Accounting schemes change date. |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S - kWh - PP recovered electricity |
| payoffMethodChangeDate | string (date) | N | Payoff method change date. |
| | | | |

| | | | |
|---|---|---|---|
| voltage | number | N | Object voltage, kV. |
| tariffPlan | string | N | Tariff plan name. |
| tariffPlanChangeDate | string (date) | N | Date of the tariff plan change. |
| timeZone | string | N | Object time zone. Possible meaning:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| consumptionAverage | string | N | Consumption average. |
| consumptionAverageCalculationDate | string (date) | N | Date of consumption average calculation. |
| consumptionAverageCalculationMonthsCount | number | N | Months count of consumption average calculation. |
| sociallyVulnerable | boolean | Y | An indication of whether the owner/tenant of the object is socially vulnerable. |

### 7.3.27 POST /gateway/order/v3/report-obj-acr

| | |
|---|---|
| **Endpoint** | POST /gateway/order/v3/report-obj-acr |
| **Description** | The method is for order a report of objects according to the granted rights. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |

| | |
|---|---|
| **JSON request** | {<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| Data for selected report can be ordered if report is not locked. | 2031 | Data is not currently available for the selected report. | |
| The object must have a valid access right. | 2020 | Object *[objectNumbers (if there is more than one object, objects must be separated by the semicolon)]* does not have an access right or access right is expired. | objectNumbers |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |

#### 7.3.27.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumbers | list of string | Y | Object numbers. |

### 7.3.27.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

## 7.3.28 GET /gateway/order/v3/{orderId}/report-obj-acr

| | |
|---|---|
| **Endpoint** | GET /gateway/order/v3/{orderId}/report-obj-acr |
| **Description** | The method for used to the order report "Report of objects by granted rights". |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"consumerCode": "string",<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"objectName": "string",<br>"objectType": "string",<br>"objectAddress": "string",<br>"contractType": "string",<br>"contractModel": "string",<br>"permitablePowerConsumption": number, |

```
"permitablePowerGeneration": number,
"usedPowerPlantTotalPower": number,
"installedGeneratingPower": number,
"powerPlantObject": {
        "powerPlantValidFrom": "string",
        "powerPlantValidTo": "string",
        "powerPlantObjectType": "string"
},
"metersAmount": integer,
"autoMetersAmount": integer,
"smartMeterInstallationDate": "string",
"supplyState": "string",
"supplyStateFrom": "string",
"supplyStateTo": "string",
"consumptionState": "string",
"consumptionStateFrom": "string",
"consumptionStateTo": "string",
"productsAmount": integer,
"scalesAmount": integer,
"technologicalCosts": boolean,
"accountingType": "string",
"generatingGroup": integer,
"generatingObjectPriorityGroup": integer,
"generatingObjectType": "string",
"powerPlantObjects": [
   {
      "powerPlantObjectNumber": "string",
      "powerPlantType": "string",
      "generatingObjectType": "string",
      "generatingPower": number,
      "powerPlantValidFrom": "string",
      "powerPlantValidTo": "string",
      "accountingScheme": "string",
      "accountingSchemeValidFrom": "string",
      "accountingSchemeValidTo": "string",
      "accountingSchemeChangeDate": "string",
      "payoffMethod": "string",
```

| | |
|---|---|
| | <pre>"payoffMethodChangeDate": "string"<br>}<br>],<br>"voltage": number,<br>"tariffPlan": "string",<br>"tariffPlanChangeDate": "string",<br>"timeZone": "string",<br>"consumptionAverage": "string",<br>"consumptionAverageCalculationDate": "string",<br>"consumptionAverageCalculationMonthsCount": number<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

### 7.3.28.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

### 7.3.28.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consumerCode | string | Y | Contract owner consumer code. |
| personCode | string | Y | Person / company code. |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Contract owner surname. |
| objectNumber | string | Y | Object number. |
| objectName | string | N | Object name. |
| objectType | string | Y | Object type. |

| | | | |
|---|---|---|---|
| objectAddress | string | Y | Object address. |
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| contractModel | string | Y | Contract model of the current object at a supplier. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| permitablePowerConsumption | number | N | Permittable power consumption in the object, kW. |
| permitablePowerGeneration | number | N | Permittable power generation in the object, kW.<br><br>The permittable power generation value is the sum of the object's power with the value LGG. |
| usedPowerPlantTotalPower | number | N | Total permittable power generation of the object, kW.<br><br>Total permittable power generation value is the sum of the generating powers of the used power plants. |
| installedGeneratingPower | number | N | Installed generating power in the object, kW. |
| powerPlantObject: {} | | | |
| powerPlantValidFrom | string (date) | N | The object’s power plant valid from date. |
| powerPlantValidTo | string (date) | N | The object’s power plant valid to date. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind |

| | | | |
|---|---|---|---|
| | | | • P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| | | | |
| metersAmount | integer | N | Meters' amounts are counted at the level of the object. |
| autoMetersAmount | integer | N | Total number of remotely readable or smart metering devices installed at the object. |
| smartMeterInstallationDate | string (date) | N | Date of installation of the object`s smart meter. |
| supplyState | string | N | Power supply state of the object. Possible meanings:<br>• T – Supply<br>• P – Disconnected on request<br>• A – Disconnected under sanction<br>• R – Limited by sanction |
| supplyStateFrom | string (date) | N | The object's electricity supply status is valid from. |
| supplyStateTo | string (date) | N | The object's electricity supply status is valid to. |
| consumptionState | string | N | Object power consumption status code. Possible meanings:<br>• N - Temporarily not used<br>• V – Consuming<br>• A – Alleged |
| consumptionStateFrom | string (date) | N | The object's electricity consumption status is valid from. |
| consumptionStateTo | string (date) | N | The object's electricity consumption status is valid to. |
| productsAmount | integer | N | Products' amounts are counted at the level of the object. |
| scalesAmount | integer | N | Scales' amounts are counted at the level of the object. |
| technologicalCosts | boolean | N | Indicator or object according to the latest data is accounted for technological costs. |
| accountingType | string | Y | Accounting type. Possible meanings: |

| | | | |
|---|---|---|---|
| | | | • NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates EUR<br>• NET_METERING_NET_BILLING - accumulates kwh and EUR<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| generatingGroup | integer | N | The group identifier of the generating user. |
| generatingObjectPriorityGroup | integer | N | The priority of the generating user group object. |
| generatingObjectType | string | N | Generating object type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer<br><br>The generating object type value is calculated based on the used power plants' generating consumer type values ('powerPlantObjects.generatingObjectType'):<br><br>• If the generating consumer type of the used power plant is G, the calculated value is G.<br>• If the generating consumer type of the used power plant is N, the calculated value is N.<br>• If the generating consumer type of the used power plant is G and N, the calculated value is G.<br>• If the object does not have any power plants in use, but the accounting type is 'ENERGY_SHARER,' the calculated value is G. |
| powerPlantObjects: [] | | | |
| powerPlantObjectNumber | string | N | Power plant object number. |
| powerPlantType | string | N | Type of the power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC |

| | | | |
|---|---|---|---|
| | | | • V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| generatingPower | number | N | The power generated by assigned power plant. |
| powerPlantValidFrom | string (date) | N | Generating consumer type valid from. |
| powerPlantValidTo | string (date) | N | Generating consumer type valid to. |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| accountingSchemeValidFrom | string (date) | N | Generating consumer accounting scheme valid from. |
| accountingSchemeValidTo | string (date) | N | Generating consumer accounting scheme valid to. |
| accountingSchemeChangeDate | string (date) | N | Accounting schemes change date. |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S - kWh - PP recovered electricity |
| payoffMethodChangeDate | string (date) | N | Payoff method change date. |
| | | | |
| voltage | number | N | Object voltage, kV. |

| | | | |
|---|---|---|---|
| tariffPlan | string | N | Tariff plan name. |
| tariffPlanChangeDate | string (date) | N | Date of the tariff plan change. |
| timeZone | string | N | Object time zone. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| consumptionAverage | number | N | Consumption average. |
| consumptionAverageCalculationDate | string (date) | N | Date of consumption average calculation. |
| consumptionAverageCalculationMonthsCount | integer | N | Months count of consumption average calculation. |

### 7.3.29 POST /gateway/order/data-daily-obj-lvl

| | |
|---|---|
| **Endpoint** | POST /gateway/order/data-daily-obj-lvl |
| **Description** | The method is used for ordering a report of daily quantities at the object level. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"consumptionCategories": [<br>"string", |

| | |
|---|---|
| | "string"<br>],<br>"objectNumbers": [<br>"string",<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]*, was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |

| | | | |
|---|---|---|---|
| The meaning of the "objectNumber" notification cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |

#### 7.3.29.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning date of the reporting period. |
| dateTo | string (date) | Y | The end date of the reporting period. |
| consumptionCategories | string | Y | Consumption categories. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | list of strings | Y | Object number. |

#### 7.3.29.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.30 GET /gateway/order/{orderId}/data-daily-obj-lvl

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-daily-obj-lvl |
| **Description** | The method is used to obtain a report of daily quantities at the object level. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"consumptions": [<br>{<br>"consumptionDate": "string",<br>"productTypes": [<br>{<br>"productType": "string",<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "string",<br>"amount": number,<br>"valueType": "string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>] |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.30.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number (ID). |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.30.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person / company code. |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Person’s surname. |
| objectNumber | string | Y | Object number. |
| consumptions: [] | | | |
| consumptionDate | string (date) | Y | Date of electricity consumption or generation. |
| consumptions.productTypes: [] | | | |
| productType | string | N | Product type. |
| consumptions.productTypes.consumptionCategories: [] | | | |
| consumptionCategory | string | Y | Consumed/generated energy type. Possible meanings:<br><br>• P+ (active P+ electricity)<br>• P- (active P- electricity)<br>• Q+ (reactive Q+ electricity) |

| | | | |
|---|---|---|---|
| | | | • Q- (reactive Q- electricity) |
| amount | number | Y | Quantity of consumed or generated energy. |
| valueType | string | Y | Consumption value type. Possible meanings:<br><br>• EST– estimated<br>• VAL – validated |

### 7.3.31 POST /gateway/order/data-daily-mtr-lvl

| | |
|---|---|
| **Endpoint** | POST /gateway/order/data-daily-mtr-lvl |
| **Description** | The method is used for ordering a report of daily quantities at the meter level. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"consumptionCategories": [<br>"string",<br>"string"<br>],<br>"objectNumbers": [<br>"string",<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | Date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Object meter must be automated. | 2007 | The submitted object number: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]*, was not found or the meter of object is not automated. | objectNumbers |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be submitted in a report order. | objectNumbers |
| The meaning of the "objectNumber" notification cannot be repeated. | 2028 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |

#### 7.3.31.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|

| | | | |
|---|---|---|---|
| dateFrom | string (date) | Y | The beginning date of the reporting period. |
| dateTo | string (date) | Y | The end date of the reporting period. |
| consumptionCategories | string | Y | Consumption categories. Possible meanings:<br>• P+<br>• P-<br>• Q+<br>• Q- |
| objectNumbers | list of strings | Y | Object number. |

#### 7.3.31.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.32 GET /gateway/order/{orderId}/data-daily-mtr-lvl

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/data-daily-mtr-lvl |
| **Description** | The method is used to obtain a report of daily quantities at the meter level. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |

| | |
|---|---|
| **JSON request** | |
| **JSON response** | [<br>{<br>"personCode": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"objectNumber": "string",<br>"meters": [<br>{<br>"meterNumber": "string",<br>"consumptions": [<br>{<br>"consumptionDate": "string",<br>"productTypes": [<br>{<br>"productType": "string",<br>"consumptionCategories": [<br>{<br>"consumptionCategory": "string",<br>"amount": number,<br>"valueType": "string"<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.32.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

### 7.3.32.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | Y | Person / company code. |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Person’s surname. |
| objectNumber | string | Y | Object number. |
| meters: [] | | | |
| meterNumber | string | Y | Meter device number in the object. |
| meters.consumptions: [] | | | |
| consumptionDate | string (date) | Y | Date of electricity consumption or generation. |
| meters.consumptions.productTypes: [] | | | |
| productType | string | N | Product type. |
| consumptionCategories: [] | | | |
| consumptionCategory | string | Y | Consumed/generated energy type. Possible meanings:<br><br>• P+ (active P+ electricity)<br>• P- (active P- electricity)<br>• Q+ (reactive Q+ electricity)<br>• Q- (reactive Q- electricity) |
| amount | number | Y | Quantity of consumed or generated energy. |
| valueType | string | Y | Consumption value type.  Possible meanings: |

| | | | |
|---|---|---|---|
| | | | • EST–estimated<br>• VAL – validated |

### 7.3.33 POST /gateway/order/move-in-obj

| | |
|---|---|
| **Endpoint** | POST /gateway/order/move-in-obj |
| **Description** | The method is used for ordering a Report of Incoming Objects. |
| **Parameters** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| Data for selected report can be ordered if report is not locked. | 2031 | Data is not currently available for the selected report. | |

#### 7.3.33.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.34 GET /gateway/order/{orderId}/move-in-obj

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/move-in-obj |
| **Description** | The method is used to obtain the Report of Incoming Objects. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"changeType": "string",<br>"contractStart": "string",<br>"ownerInfo": {<br>"personName": "string",<br>"personSurname": "string"<br>},<br>"objects": [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string",<br>"contractType": "string", |

| | |
|---|---|
| | "generatingObjectType": "string"<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

#### 7.3.34.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

#### 7.3.34.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| changeType | string | N | Notification type for contract change. Possible values:<br>• STK<br>• NTK |
| contractStart | string (date) | Y | The start date of the contract. |
| ownerInfo: {} | | | |
| personName | string (200) | Y | Object owner's name. |
| personSurname | string (50) | N | Object owner's surname. |
| objects: [] | | | |
| objectNumber | string (20) | Y | The object number expected to arrive. |
| objectAddress | string | Y | The address of the object expected to arrive. |

| | | | |
|---|---|---|---|
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| generatingObjectType | string | N | Generating object type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |

### 7.3.35 POST /gateway/order/move-out-obj

| | |
|---|---|
| **Endpoint** | POST /gateway/order/move-out-obj |
| **Description** | The method is used for ordering a Report of Outgoing Objects. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| Data for selected report can be ordered if report is not locked. | 2031 | Data is not currently available for the selected report. | orderId |

#### 7.3.35.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.36 GET /gateway/order/{orderId}/move-out-obj

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/move-out-obj |
| **Description** | The method is used to obtain the Report of Outgoing Objects. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"changeType": "string",<br>"contractEnd": "string",<br>"ownerInfo": { |

| | |
|---|---|
| | <pre>"personName": "string",<br>"personSurname": "string"<br>},<br>"objects": [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string",<br>"contractType": "string",<br>"generatingObjectType": "string"<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

### 7.3.36.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

### 7.3.36.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| contractEnd | string | N | Notification type for contract change. Possible meanings:<br>• STK<br>• NTK<br>• SN |
| contractEnd | string (date) | Y | The end date of the contract. |
| ownerInfo: {} | | | |
| personName | string | Y | Object owner's name. |
| personSurname | string | N | Object owner's surname. |
| objects: [] | | | |

| | | | |
|---|---|---|---|
| objectNumber | string | Y | The object number expected to leave. |
| objectAddress | string | Y | The address of the object expected to leave. |
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| generatingObjectType | string | N | Generating object type. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |

### 7.3.37 POST /gateway/order/power-plant

| | |
|---|---|
| **Endpoint** | POST /gateway/order/power-plant |
| **Description** | The method is for order a power plant report. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | { |

| | |
|---|---|
| | "orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A maximum of 500 objects can be submitted in a report order. | 2021 | A maximum of 500 objects can be specified. | objectNumbers |

#### 7.3.37.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | date | Y | The beginning of the reporting period. |
| dateTo | date | Y | The end of the reporting period. |
| objectNumbers | list of strings | N | Object numbers. |

#### 7.3.37.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.38 GET /gateway/order/{orderId}/power-plant

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/power-plant |
| **Description** | The method is used to obtain power plant report data. |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"objectNumber": "string",<br>"type": "string",<br>"validFrom": "string",<br>"validTo": "string",<br>"typeValidFrom": "string",<br>"typeValidTo": "string",<br>"generatingSources": [<br>{<br>"type": "string",<br>"installedGeneratingPower": "string",<br>"validFrom": "string",<br>"validTo": "string", |

| | |
|---|---|
| | "batteryCapacity": number<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| The number of objects in the return list must be less than or equal to 10000. | 2022 | The number of objects on the list has been exceeded. | count |

### 7.3.38.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | The index of the object, which must be the first in the return list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | The number of objects in the return list. The default value is 10000. If no count value is given, the default value count will be 10000. |

### 7.3.38.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string | Y | Power plant object number. |
| type | string | Y | Power plant type. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| validFrom | string (date) | Y | The power plant is valid from. |
| validTo | string (date) | N | The power plant is valid to. |
| typeValidFrom | string (date) | Y | The power plant type valid from. |

| | | | |
|---|---|---|---|
| typeValidTo | string (date) | N | The power plant type valid to. |
| generatingSources: [] | | | |
| type | string | Y | Generation source type. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K - Other<br>• S – Solar<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas |
| installedGeneratingPower | string | N | The installed generation power of the generation source, kW. |
| validFrom | string (date) | Y | Generation source valid from. |
| validTo | string (date) | N | Generation source valid to. |
| batteryCapacity | number | N | Storage device battery capacity. |

### 7.3.39 POST /gateway/order/balance-data-by-contract-type

| | |
|---|---|
| **Endpoint** | POST /gateway/order/balance-data-by-contract-type |
| **Description** | The method is intended for ordering "Balance data by contract type" report. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"involvedPartyPermissionId": number, |

| | |
|---|---|
| | "contractType": "string",<br>"dateFrom": "string",<br>"dateTo": "string",<br>"interval": "string"<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A report can be requested for a maximum period of one accounting month. | 2024 | The report can only be ordered for 1 accounting month or less. | dateFrom, dateTo |
| A report with permission can be ordered for the current month and up to 12 full previous months. | 3101 | A report with permission can be ordered for the current month and up to 12 full previous months. | involvedPartyPermissionId<br>dateFrom |
| If a permission Id is specified, it must be valid. | 3102 | The specified permission was not found. | involvedPartyPermissionId |

#### 7.3.39.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| involvedPartyPermissionId | number | N | Identification number of the granted permission.<br><br>**Note.** The attribute "involvedPartyPermissionId" is only filled in if permission has been received from another interested party to order the relevant data. |
| contractType | string | N | Contract type. Possible meanings:<br><br>• SKMS<br>• SBTS |
| dateFrom | string (date) | Y | The beginning date (inclusive) of the reporting period. |
| dateTo | string (date) | Y | The end date of the reporting period. |
| interval | string | Y | Consumption interval. Possible meanings:<br><br>• HOUR<br>• QUARTER |

#### 7.3.39.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | The report ordering primary surrogate key. |

### 7.3.40 GET /gateway/order/{orderId}/balance-data-by-contract-type

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/balance-data-by-contract-type |
| **Description** | The method is used to obtain the report "Balance data by contract type". |
| **Parameter** | URL parameters: *orderId, first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"contractType": "string",<br>"timeSeriesData": [<br>{<br>"intervalDateTime": "string",<br>"valueOfConsumption": number<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |

| | | | |
|---|---|---|---|
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType].* | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |
| Data sorted by date ascending. | | | |

#### 7.3.40.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. The default value is 10 000. |

#### 7.3.40.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| contractType | string | Y | Contract type. Possible meanings:<br>• SKMS<br>• SBTS |
| timeSeriesData: [] | | | |
| intervalDateTime | string (dateTime) | Y | Date interval (Date format example: 2025-01-01T00:00:00+02:00). |

| | | | |
|---|---|---|---|
| valueOfConsumption | number | Y | Total consumed electricity in MWh. |

### 7.3.41 POST /gateway/order/dso-consumption-production

| | |
|---|---|
| **Endpoint** | POST /gateway/order/dso-consumption-production |
| **Description** | Allows to order a report that provides summarized data on electricity consumption and production for DSO network users. The report includes the following information:<br><br>**Electricity Consumption:**<br><br>• Data categorized by contract type (e.g., commercial, household).<br>• Total electricity consumption across all contract types.<br><br>**Electricity Production:**<br><br>• Data categorized by generation type (e.g., solar, wind, hydroelectric, etc.)<br>• Total electricity production across all generation types. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"dateFrom": "string",<br>"dateTo": "string",<br>"interval": "string",<br>"energyFlowCategories": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"orderId": integer<br>} |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom, dateTo |
| A report can be requested for a maximum period of one accounting month. | 2024 | The report can only be ordered for 1 accounting month or less. | dateFrom, dateTo |

#### 7.3.41.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | Reporting period start date (format: YYYY-MM-DD). |
| dateTo | string (date) | Y | Reporting period end date (format: YYYY-MM-DD). |
| interval | string | Y | Parameter that specifies the time interval for how the data should be presented. Possible values:<br>• HOUR – 1 hour interval<br>• QUARTER – 15-minute interval |

| | | | |
|---|---|---|---|
| energyFlowCategories | list of strings | N | Parameter that specifies the type of electricity data to be provided. Possible category values:<br><br>• CONSUMPTION - electricity consumption data, categorized by contract type and total consumption<br>• PRODUCTION – electricity consumption data, categorized by generation type and total production<br><br>If no category is selected when ordering the report, the default will include both consumption and production data. |

#### 7.3.41.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | Unique identifier for report request. |

### 7.3.42 GET /gateway/order/{orderId}/dso-consumption-production

| | |
|---|---|
| **Endpoint** | GET /gateway/order/{orderId}/dso-consumption-production |
| **Description** | Retrieve detailed data from an ordered report on electricity consumption and production for DSO network users by specifying the report's unique order identifier. |
| **Parameter** | Path parameters: *orderId.*<br>Query parameters: *first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |

| | |
|---|---|
| **JSON response** | [<br>{<br>"intervalDateTime": "string",<br>"energyFlowCategory": "string",<br>"contractType": "string",<br>"generationType": "string",<br>"amount": number<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

#### 7.3.42.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. The default value is 10 000. |

#### 7.3.42.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| intervalDateTime | string (dateTime) | Y | Date and time when the consumed/produced electricity amount was recorded. The date and time are provided in ISO 8601 format with a time zone offset from UTC (e.g., 2025-01-01T00:00:00+02:00). |
| energyFlowCategory | string | Y | Parameter that helps identify the type of electricity data provided and how it is classified. Possible energy flow category values:<br><br>• CONSUMPTION – indicates electricity consumption, classified by contract type<br>• PRODUCTION – indicates electricity production, classified by generation type<br>• CONSUMPTION_TOTAL – indicates the total electricity consumption, including all contract types<br>• PRODUCTION_TOTAL – indicates the total electricity production, including all generation types |
| contractType | string | N | Contract type is used to classify electricity consumption. Consumption is categorized by the following contract types:<br><br>• SBTS - Household contract<br>• SKMS – Commercial contract |
| generationType | string | N | Generation type is used to classify electricity production. Production is categorized by the following production types:<br><br>• A – Waste fuel<br>• B – Biomass generation |

| | | | |
|---|---|---|---|
| | | | • H – Hydroelectric generation<br>• K – Other generation<br>• S – Solar generation<br>• T – TEC generation<br>• V – Wind generation<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| Amount | double (10.3) | N | Amount of consumed/produced electricity expressed in megawatt-hour (MWh) and rounded to three decimal places. |

### 7.3.43 POST /gateway/order/nrt-charged-meters

| | |
|---|---|
| **Endpoint** | POST /gateway/order/nrt-charged-meters |
| **Description** | Used to request a report of meters billed for the NRT (Near-Real-Time) service within the specified accounting period. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "dateFrom": "string", "dateTo": "string", "objectNumbers": [ "string" ], "meterNumbers": [ "string" ] |

| | |
|---|---|
| | } |
| **JSON response** | {<br>"orderId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |
| **JSON request logic** | JSON request logic version 2 is applied. For examples and a detailed description, see the JSON Request Logic section. |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Date from must be the first day of the month. | 1033 | Date from must be the first day of the month. | dateFrom |
| Date to must be the last day of the month. | 1034 | Date to must be the last day of the month. | dateTo |
| Provided date cannot be earlier than 36 months before the current date. | 2012 | Date from cannot be older than 36 months old. | dateFrom |
| Report can be ordered for a maximum of 12 months. | 2013 | The report can only be ordered for 12 months or less. | dateFrom, dateTo |
| Report data can be requested only for previous accounting months. | 2034 | The value of the dateFrom field must be earlier than the start of the current month. | dateFrom |
| | | The value of the dateTo field must be earlier than the start of the current month. | dateTo |
| The attributes objectNumbers and meterNumbers must not contain more than 500 values each. | 1004 | The number of values for the attribute objectNumbers must not exceed 500. | objectNumbers |
| | | The number of values for the attribute meterNumbers must not exceed 500. | meterNumbers |

| | | | |
|---|---|---|---|
| The attributes objectNumbers and meterNumbers must not contain duplicate values. | 1006 | The value(s) of the objectNumbers *[values separated by semicolons]* are duplicated. | objectNumbers |
| | | The value(s) of the meterNumbers *[values separated by semicolons]* are duplicated. | meterNumbers |
| The requested date range must not include dates for which data is unavailable. If any date in the range is not available, the request will fail. | 2015 | Data is not currently available for the selected reporting period. | dateFrom |

#### 7.3.43.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom | string (date) | Y | Accounting period start date (format: YYYY-MM-DD). |
| dateTo | string (date) | Y | Accounting period end date (format: YYYY-MM-DD). |
| objectNumbers | list of strings | N | List of object numbers (up to 500 values may be specified). |
| meterNumbers | list of strings | N | List of meter numbers (up to 500 values may be specified). |

#### 7.3.43.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId | integer | Y | Unique identifier for report request. |

### 7.3.44 GET /gateway/order/{orderId}/nrt-charged-meters

| Endpoint | GET /gateway/order/{orderId}/nrt-charged-meters |
|---|---|

| | |
|---|---|
| **Description** | Retrieves detailed data from a report of meters billed for the NRT (Near-Real-Time) service using the report's unique order identifier. |
| **Parameters** | Path parameters: *orderId.*<br>Query parameters: *first, count.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"billingPeriod": "string",<br>"objectNumber": "string",<br>"meterNumber": "string",<br>"meterType": "string",<br>"nrtEnabledAt": "string",<br>"nrtDisabledAt": "string"<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The report cannot be retrieved because the order status is not yet *Completed*. Reports can only be retrieved when the order status is *Completed*. | 2010 | Invalid report order status. | orderId |
| The report cannot be retrieved because specified order number does not exist in the system. | 2016 | According to the submitted order number: *[orderId]*, the order does not exist. | orderId |

| | | | |
|---|---|---|---|
| The report cannot be retrieved because the provided order number or report type is invalid or inconsistent. Ensure that the correct order number and report type are used before retrying. | 2017 | Invalid method selected or parameter specified incorrectly. According to the submitted order number: *[orderId]* report type is: *[orderType]*. | orderId, orderType |
| No data was found for the submitted search parameters. | 2018 | There is no data for the selected search parameters, the response is empty. | orderId |

#### 7.3.44.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| orderId *(path)* | integer | Y | Order identification number. |
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). Default value: 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. Default value: 10 000. |

#### 7.3.44.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| billingPeriod | string (date) | Y | Accounting period. Format: YYYY-MM-DD. |
| objectNumber | string | Y | Object number. |
| meterNumber | string | Y | Object meter number. |
| meterType | string | Y | Meter type. |
| nrtEnabledAt | string (date) | Y | Activation date of the NRT service. Format: YYYY-MM-DD. |
| nrtDisabledAt | string (date) | N | Deactivation date of the NRT service. Format: YYYY-MM-DD. |

## 7.4 Object controller

### 7.4.1 POST /gateway/object/v3/my/active/list

| | |
|---|---|
| **Endpoint** | POST /gateway/object/v3/my/active/list |
| **Description** | The method is designed to obtain a list of valid objects in the contract according to the selection criteria. The method will be used before performing:<br><br>• owner change process<br>• contract termination process<br>• tariff plans change process |
| **Parameter** | URL parameters: *first, count, sort* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"personCode": "string",<br>"consumerCode": "string",<br>"objectNumber": "string",<br>"meterNumber": "string",<br>"showObjectMeter": boolean,<br>"showObjectPower": boolean,<br>"showObjectState": boolean<br>} |
| **JSON response** | [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string",<br>"objectName": "string",<br>"objectType": "string",<br>"timeLimitedObjectValidTo": "string",<br>"ownershipDocumentNumber": "string", |

```
"ownershipDocumentDate": "string",
"auctionDate": "string",
"technologicalCosts": boolean,
"productsAmount": integer,
"scalesAmount": integer,
"metersAmount": integer,
"autoMetersAmount": integer,
"supplier": {
   "supplierType": "string",
   "contractStart": "string",
   "contractEnd": "string",
   "contractModel": "string"
},
"objectStates": [
   {
      "stateType": "string",
      "state": "string",
      "stateValidFrom": "string",
      "stateValidTo": "string"
   }
],
"voltage": number,
"powerPlantObjects": [
   {
      "powerPlantObjectNumber": "string",
      "powerPlantType": "string",
      "generatingObjectType": "string",
      "generatingPower": number,
      "powerPlantValidFrom": "string",
      "powerPlantValidTo": "string",
      "accountingScheme": "string",
      "accountingSchemeValidFrom": "string",
      "accountingSchemeValidTo": "string",
      "accountingSchemeChangeDate": "string",
      "payoffMethod": "string",
      "payoffMethodChangeDate": "string"
   }
```

```
],
"objectPowers": [
    {
        "powerType": "string",
        "power": number,
        "reliabilityCategoryType": "string",
        "powerValidFrom": "string",
        "powerValidTo": "string"
    }
],
"generatingObjectGroup": {
    "generatingGroup": integer,
    "generatingObjectPriorityGroup": integer
},
"tariff": {
    "tariffPlan": "string",
    "timeZone": "string",
    "tariffPlanChangeDate": "string",
    "expressTariffPlanChangeAvailable": boolean
},
"meters": [
    {
        "meterNumber": "string",
        "meterTypeName": "string",
        "meterScaleLength": integer,
        "conversionPoss": boolean,
        "meterAutomated": boolean,
        "scales": [
            {
                "scaleIdentifier": "string",
                "scaleProduct": "string"
            }
        ]
    }
],
"contract": {
    "consumerCode": "string",
```

| | |
|---|---|
| | <pre>"contractType": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"personCode": "string",<br>"personType": "string",<br>"personIndividual": boolean,<br>"sociallyVulnerable": boolean,<br>"accountingType": "string",<br>"contact": {<br>"mobPhoneNoNetwork": "string",<br>"mobPhoneNo2Network": "string",<br>"mobPhoneInvoice": "string",<br>"phoneNoNetwork": "string",<br>"emailNetwork": "string",<br>"email2Network": "string",<br>"emailInvoice": "string",<br>"correspondenceAddress": "string",<br>"mobPhoneNoObject": "string"<br>}<br>},<br>"consumptionAverage": number,<br>"consumptionAverageCalculationDate": "string",<br>"consumptionAverageCalculationMonthsCount": integer,<br>"powerPlantObjectType": "string"<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|

| | | | |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| One or more request parameters are required. | 1001 | One or more request parameters are required. | personCode, consumerCode, objectNumber, meterNumber |

#### 7.4.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the object (starting from 0) that must be presented first in the return list. The default value is 0. |
| count (*query*) | integer | N | The number of objects in the return list. The default value is 30. |
| sort (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.4.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string (20) | N | Contract owner / tenant / company code. |
| consumerCode | string (20) | N | Contract owner / tenant consumer code. |
| objectNumber | string (20) | N | Object number. |
| meterNumber | string (20) | N | Meter number. |
| showObjectMeter | boolean | N | Indication of whether meter information should be retrieved. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| showObjectPower | boolean | N | Indication of whether power information should be retrieved. |
| showObjectState | boolean | N | Indication of whether object status information should be retrieved. |

#### 7.4.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Full address of the object. |
| objectName | string | N | Object name. |
| objectType | string | N | Object type name. |
| timeLimitedObjectValidTo | string (date) | N | Expire date of the term object. |
| ownershipDocumentNumber | string | N | Ownership document number. |
| ownershipDocumentDate | string (date) | N | Ownership document date of number. |
| auctionDate | string (date) | N | Date of acquisition of the object from the auction. |
| technologicalCosts | boolean | N | Indicator or object according to the latest data is accounted for technological costs. |
| productAmount | integer | N | Products' amounts are counted at the level of the object. |
| scalesAmount | integer | N | Scales' amounts are counted at the level of the object. |
| metersAmount | integer | N | Meters' amounts are counted at the level of the object. |
| autoMetersAmount | integer | N | Automated meters' amounts are counted at the level of the object. |
| supplier: {} | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| supplierType | string | Y | Current supplier type. Possible meanings:<br><br>• VT - public supplier<br>• GT - warranty supplier<br>• NT - independent supplier |
| contractStart | string (date) | Y | Start date of entry into force of the object at a supplier. |
| contractEnd | string (date) | N | End date of entry into force of the object at a supplier. |
| contractModel | string | Y | Contract model of the current object at a supplier. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| objectStates: {} | | | |
| stateType | string | N | Object state type. Possible meanings:<br><br>• ETB - Supply state<br>• VBS - Consumption state |
| state | string | N | Power supply state of the object. Possible meanings:<br><br>• T - Supply<br>• P - Disconnected on request<br>• A - Disconnected under sanction<br>• R - Limited by sanction<br><br>Power consumption state of the object. Possible meanings:<br><br>• N – Temporarily inactive<br>• V - Consuming<br>• A - Alleged |
| stateValidtFrom | string (date) | N | Object state valid from. |
| stateValidTo | string (date) | N | Object state valid to. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | |
| voltage | number | N | Object voltage, kV. |
| powerPlantObjects: [] | | | |
| powerPlantObjectNumber | string | N | Power plant object number. |
| powerPlantType | string | N | Type of the power plant. Possible meanings:<br><br>• A – Waste fuel.<br>• B – Biomass.<br>• H – Hydroelectric.<br>• K – Other.<br>• S – Solar.<br>• T – TEC.<br>• V – Wind.<br>• P – Storage device.<br>• I – Fossil.<br>• D – Biogas.<br>• R – Hybrid generation. |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| generatingPower | number | N | The power generated by assigned power plant. |
| powerPlantValidFrom | string (date) | N | Generating consumer type valid from. |
| powerPlantValidTo | string (date) | N | Generating consumer type valid to. |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accountingSchemeValidFrom | string (date) | N | Generating consumer accounting scheme valid from. |
| accountingSchemeValidTo | string (date) | N | Generating consumer accounting scheme valid to. |
| accountingSchemeChangeDate | string (date) | N | Accounting schemes change date. |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| payoffMethodChangeDate | string (date) | N | Payoff method change date. |
| objectPowers: [] | | | |
| powerType | string | N | Object power type. Possible meanings:<br>• LOG - Permissible power consumption<br>• LGG - Permissible power generation<br>• IOG - Installed usable power<br>• IGG - Installed to generate power |
| power | number | N | Object power. |
| powerValidFrom | string (date) | N | Object power valid from. |
| powerValidTo | string (date) | N | Object power valid to. |
| reliabilityCategoryType | string | N | Type of credibility of supply category. Possible meanings:<br>• 1 - 1 category<br>• 2 - 2 category<br>• 3 - 3 category |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| generatingObjectGroup: {} | | | |
| generatingGroup | integer | N | The group identifier of the generating user. |
| generatingObjectPriorityGroup | integer | N | The priority of the generating user group object. |
| tariff: {} | | | |
| tariffPlan | string | N | Tariff plan name. |
| timeZone | string | N | Object time zone. Possible meaning:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| tariffPlanChangeDate | string (date) | N | Date of the tariff plan change. |
| expressTariffPlanChangeAvailable | boolean | Y | Parameter indicating whether an express tariff plan change is available. Possible values:<br><br>• true - the express tariff plan change is available.<br>• false - the express tariff plan change is not available.<br><br>Eligibility is evaluated automatically by the system according to applicable business rules. |
| meters: [] | | | |
| meterNumber | string | Y | Object meter number. |
| meterTypeName | string | N | Meter type name. |
| meterScaleLength | integer | N | Maximum number of scale marks installed (programmable) in the meter. |
| conversionPoss | boolean | Y | Indication of whether conversion of the total readings of the meter scales is possible. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| meterAutomated | boolean | Y | Indication of whether the meter has automated accounting. |
| scales: [] | | | |
| scaleIdentifier | string | Y | Internal scale identifier. Possible meanings:<br><br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleProduct | string | Y | Internal scale product. Possible meanings:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| contract: {} | | | |
| consumerCode | string | Y | Contract owner consumer code. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| personName | string | Y | Contract owner name / company name. |
| personSurname | string | N | Contract owner surname. |
| personCode | string | N | Contract owner person / company code<br><br>If the subject is individual, that person code must be encrypted: [********] [person code's 3 last symbols]. |
| personType | string | Y | Contract owner / tenant person type. Possible meaning:<br><br>• FAS - individual<br>• JAS - Juridical |
| personIndividual | boolean | Y | Indication of whether the contract owner / tenant is individual person. |
| sociallyVulnerable | boolean | Y | An indication of whether the owner/tenant of the object is socially vulnerable. |
| accountingType | string | Y | Accounting type. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates Eur<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| contact: {} | | | |
| mobPhoneNoNetwork | string | N | Mobile phone number for network. |
| mobPhoneNo2Network | string | N | Extra mobile phone number for the network. |
| phoneNoNetwork | string | N | Phone number for network. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| mobPhoneInvoice | string | N | Mobile phone number for invoice.<br>Data has been returned if contract type is SKMS. |
| emailNetwork | string | N | Email address for the network. |
| emailNetwork2 | string | N | Extra email address for the network. |
| emailInvoice | string | N | Email address for the invoice.<br>Data has been returned if the contract type is SKMS. |
| correspondenceAddress | string | N | Correspondence address full name. |
| mobPhoneNoObject | string | N | Extra mobile phone number for failures.<br>Data has been returned if the contract type is SKMS. |
| | | | |
| consumptionAverage | number | N | Consumption average. |
| consumptionAverageCalculationDate | string (dateTime) | N | Date of consumption average calculation. |
| consumptionAverageCalculationMonthsCount | integer | N | Months count of consumption average calculation. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |

### 7.4.2 POST /gateway/object/v3/all/active/list

| | |
|---|---|
| **Endpoint** | POST /gateway/object/v3/all/active/list |
| **Description** | The method is used to obtain a list of objects at the time of awarding the contract, according to the selection criteria. The method will be used before performing:<br><br>• Owner and supplier change process<br>• Supply change process |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"personCode": "string",<br>"consumerCode": "string",<br>"objectNumber": "string",<br>"meterNumber": "string",<br>"objectDataConsentSign": boolean<br>} |
| **JSON response** | [<br>{<br>"personName": "string",<br>"personSurname": "string",<br>"personCode": "string",<br>"consumerCode": "string",<br>"objectNumber": "string",<br>"metersAmount": integer,<br>"autoMetersAmount": integer,<br>"smartMeterInstallationDate": "string",<br>"meters": [<br>{<br>"meterNumber": "string",<br>"meterAutomated": boolean,<br>"automationSystem": "string", |

```
            "meterScaleLength": integer,
            "scales": [
               {
                  "scaleIdentifier": "string",
                  "scaleProduct": "string"
               }
            ]
         }
      ],
      "objectAddress": "string",
      "contractType": "string",
      "contractModel": "string",
      "supplierType": "string",
      "timeLimitedObjectValidTo": "string",
      "tariffPlan": "string",
      "tariffPlanChangeDate": "string",
      "timeZone": "string",
      "ownershipDocumentNumber": "string",
      "supplyOwnership": "string",
      "contractStart": "string",
      "contractEnd": "string",
      "accountingType": "string",
      "objectFutureSuppliers": [
         {
            "supplierCode": "string",
            "supplierName": "string",
            "contractStart": "string",
            "contractEnd": "string"
         }
      ],
      "powerPlantObjects": [
         {
            "powerPlantObjectNumber": "string",
            "powerPlantType": "string",
            "generatingObjectType": "string",
            "generatingPower": number,
            "accountingScheme": "string",
```

```
            "accountingSchemeValidFrom": "string",
            "accountingSchemeValidTo": "string",
            "accountingSchemeChangeDate": "string",
            "payoffMethod": "string",
            "payoffMethodChangeDate": "string"
        }
    ],
    "objectPowers": [
        {
            "powerType": "string",
            "power": number,
            "powerValidFrom": "string",
            "powerValidTo": "string"
        }
    ],
    "generatingObjectGroup": {
        "generatingGroup": integer,
        "generatingObjectPriorityGroup": integer
    },
    "objectLatestSupplyState": {
        "state": "string",
        "stateValidFrom": "string",
        "stateValidTo": "string"
    },
    "contact": {
        "mobPhoneNoNetwork": "string",
        "mobPhoneNo2Network": "string",
        "mobPhoneInvoice": "string",
        "phoneNoNetwork": "string",
        "emailNetwork": "string",
        "emailNetwork2": "string",
        "emailInvoice": "string"
    },
    "consumptionAverage": number,
    "consumptionAverageCalculationDate": "string",
    "consumptionAverageCalculationMonthsCount": integer,
    "powerPlantObjectType": "string",
```

| | |
|---|---|
| | "expressSupplierChangeAvailable": boolean<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The request parameter "objectDataConsentSign" is **true** is required. | 1020 | It is mandatory to specify, that to obtain consent to see object information. | objectDataConsentSign |
| One or more request parameters are required. | 1001 | One or more request parameters are required. | personCode, consumerCode, objectNumber, meterNumber |

#### 7.4.2.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the object (starting from 0) that must be presented first in the return list. The default value is 0. |
| count (*query*) | integer | N | The number of objects in the return list. The default value is 30. |
| sortKey *(query)* | string | N | Entries are sorted by top-level primitive fields only. By default, sorting is done by consumerCode. Nested objects and arrays are excluded from sorting. |
| sortOrder (*query*) | string | N | Sorting order: ASC (ascending) or DESC (descending). Default value is ASC. |

#### 7.4.2.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string (20) | N | Person / company code. |
| consumerCode | string (20) | N | Consumer code. |
| objectNumbers | string (20) | N | Object number. A maximum of 500 objects can be specified. |
| meterNumber | string (20) | N | Meter number. |
| objectDataConsentSign | boolean | Y | Object data consent sign. True or False. |

#### 7.4.2.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personName | string | Y | Contract owner / tenant name / company name. |
| personSurname | string | N | Contract owner / tenant surname. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | N | Contract owner / tenant person / company code.<br>If the subject is individual, that person code must be encrypted: [********] [person code's 3 last symbols]. |
| consumerCode | string | Y | Contract owner / tenant consumer code. |
| objectNumber | string | Y | Object number. |
| meterAmount | integer | N | The number of meters is calculated at the object level. |
| autoMetersAmount | integer | N | The number of automated meters is calculated at the object level. |
| smartMeterInstallationDate | string (date) | N | Date of installation of the object`s smart meter. |
| meters: [] | | | |
| meterNumber | string | Y | Number of the object meter. |
| meterAutomated | boolean | Y | An indication of whether the meter has automated accounting. |
| automationSystem | string | N | Automated meter system. Possible meanings:<br>• MDM (new MDM system, smart meters)<br>• EMCOS (existing EMCOS system, automated meters) |
| meterScaleLenght | integer | Y | Maximum number of scale marks installed (programmable) in the meter. |
| scales: [] | | | |
| scaleIdentifier | string | N | Internal scale identifier. Possible meanings:<br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| scaleProduct | string | N | Internal scale product. Possible meanings:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| | | | |
| objectAddress | string | Y | Full title of the object address. |
| contractType | string | Y | Contract type of the current object. Possible meanings:<br><br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| contractModel | string | N | Contract model of the current object. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| supplierType | string | Y | Current supplier type. Possible meanings:<br><br>• VT - public supplier<br>• GT - warranty supplier<br>• NT - independent supplier |
| timeLimitedObjectValidTo | string (dateTime) | N | Expiry date of the time-limited object |
| tariffPlan | string | N | Current tariff plan of the object. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| tariffPlanChangeDate | string (date) | N | Tariff plan change date. |
| timeZone | string | N | Current time zone of the object. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| ownershipDocumentNumber | string | N | Ownership document number. |
| supplyOwnership | string | N | Possible meanings:<br><br>• MY - the object belongs to the independent supplier.<br>• NOT_MY - the object does not belong to the independent supplier.<br>**Note:**<br><br>• For VT / GT case, the value NOT_MY will always be returned.<br>• For NT case, the value will be returned according to whether the supplier initiating the action coincides with the supplier of the object. |
| contractStart | string (date) | N | Contract start date with independent supplier.<br>Returns only if supplyOwnership = MY. Otherwise, NULL is returned. |
| contractEnd | string (date) | N | Contract end date with independent supplier.<br>Returns only if supplyOwnership = MY. Otherwise, NULL is returned. |
| accountingType | string | Y | Accounting type. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates Eur<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw |
| objectFutureSuppliers: [] | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| supplierCode | string | N | Future independent supplier code. |
| supplierName | string | N | Future independent supplier name. |
| contractStart | string (date) | N | Contract start date with future independent supplier. |
| contractEnd | string (date) | N | Contract end date with future independent supplier. |
| powerPlantObjects: [] | | | |
| powerPlantObjectNumber | string | N | Power plant object number. |
| powerPlantType | string | N | Type of the power plant. Possible meanings:<br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br>• G - Generating consumer<br>• N - Distant generating consumer |
| generatingPower | number | N | The power generated by assigned power plant. |
| powerPlantValidFrom | string (date) | Y | Generating consumer type valid from. |
| powerPlantValidTo | string (date) | N | Generating consumer type valid to. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| accountingSchemeValidFrom | string (date) | N | Generating consumer accounting scheme valid from. |
| accountingSchemeValidTo | string (date) | N | Generating consumer accounting scheme valid to. |
| accountingSchemeChangeDate | string (date) | N | Accounting schemes change date. |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| payoffMethodChangeDate | string (date) | N | Payoff method change date. |
| objectPowers: [] | | | |
| powerType | string | N | Object power type. Possible meanings:<br><br>• LOG - Permissible power consumption<br>• LGG - Permissible power generation<br>• IOG - Installed usable power<br>• IGG - Installed to generate power |
| power | number | N | Object power |
| powerValidFrom | string (date) | N | Object power valid from. |
| powerValidTo | string (date) | N | Object power valid to. |
| generatingObjectGroup: {} | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| generatingGroup | integer | N | The group identifier of the generating user. |
| generatingObjectPriorityGroup | integer | N | The priority of the generating user group object. |
| objectLatestSupplyState: {} | | | |
| state | string | N | Power supply state of the object. Possible meanings:<br>• T – Supply<br>• P – Disconnected on request<br>• A – Disconnected under sanction<br>• R – Limited by sanction |
| stateValidFrom | string (date) | N | Object state valid from. |
| stateValidTo | string (date) | N | Object state valid to. |
| contact: {} | | | |
| mobPhoneNoNetwork | string | N | Mobile phone number for network.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| mobPhoneNo2Network | string | N | Extra mobile phone number for the network.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| mobPhoneInvoice | string | N | Mobile phone number for invoice.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| phoneNoNetwork | string | N | Phone number for network.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| emailNetwork | string | N | Email address for the network.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| emailNetwork2 | string | N | Extra email address for the network.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| emailInvoice | string | N | Email address for the invoice.<br>• Data must be returned full encrypted (***) if the contract type is SKMS.<br>• Data must not be returned if the contract type is SBTS. |
| | | | |
| consumptionAverage | number | N | Consumption average. |
| consumptionAverageCalculationDate | string (dateTime) | N | Date of consumption average calculation. |
| consumptionAverageCalculationMonthsCount | integer | N | Months count of consumption average calculation. |
| powerPlantObjectType | string | N | The object's power plant type. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| expressSupplierChangeAvailable | boolean | Y | Parameter indicating whether an express supplier change is available. Possible values:<br><br>• true - an express supplier change is available.<br>• false - an express supplier change is not available.<br><br>Eligibility is evaluated automatically by the system according to applicable business rules. |

## 7.5 Notification contract controller

### 7.5.1 POST /gateway/notification/v3/contract/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v3/contract/list |
| **Description** | Method to obtain change information of the contract owner / contract owner and supplier / supplier. |
| **Parameter** | URL parameters: *first, count, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "personCode": "string", "objectNumber": "string", "notificationId": integer, "contractStartFrom": "string", "contractStartTo": "string", "submittedDateFrom": "string", "submittedDateTo": "string", "latestStatuses": [ "string" ], "userNameSearch": "string", "changeTypes": [ "string" ], "supplierContractNo": "string", "objectAddressSearch": "string", "declarated": boolean |

| | |
|---|---|
| | } |
| **JSON response** | [<br>{<br>"notificationId": integer,<br>"changeType": "string",<br>"contractType": "string",<br>"contractStart": "string",<br>"supplierContractNo": "string",<br>"notes": "string",<br>"userName": "string",<br>"submittedDate": "string",<br>"latestStatus": "string",<br>"errorType": "string",<br>"correspondenceAddress": {<br>"addressLine": "string",<br>"street": "string",<br>"building": "string",<br>"housingNo": "string",<br>"apartament": "string",<br>"locality": "string",<br>"eldership": "string",<br>"municipality": "string",<br>"county": "string"<br>},<br>"ownerInfo": {<br>"subjectType": "string",<br>"personName": "string",<br>"personSurname": "string",<br>"personCode": "string",<br>"birthDate": "string",<br>"vatCode": "string",<br>"representativeName": "string",<br>"representativeSurname": "string",<br>"representativeDuty": "string",<br>"contacts": {<br>"mobPhoneNoNetwork": "string", |

```
        "mobPhoneNo2Network": "string",
        "mobPhoneNoInvoice": "string",
        "telPhoneNoNetwork": "string",
        "emailNetwork": "string",
        "email2Network": "string",
        "emailInvoice": "string"
    }
},
"contractNotificationStatus": [
    {
        "status": "string",
        "statusDate": "string"
    }
],
"objects": [
    {
        "objectNumber": "string",
        "objectAddress": "string",
        "contractModel": "string",
        "tariffPlan": "string",
        "timeZone": "string",
        "objectNtr": "string",
        "objectNtrDate": "string",
        "uniqueRoomNo": "string",
        "ntGetCoownerConsent": boolean,
        "auctionDate": "string",
        "anotherSupplierContractCancellation": "string",
        "cancelledByAnotherSupplier": boolean,
        "cancelledByAnotherSupplierDetails": "string",
        "usedPowerPlants": [
            {
                "powerPlantObjectNumber": "string",
                "accountingScheme": "string",
                "payoffMethod": "string"
            }
        ],
        "meterDeclarations": [
```

```
            {
               "meterNumber": "string",
               "meterReadings": [
                  {
                     "scaleIdentifier": "string",
                     "scaleProduct": "string",
                     "readingValue": integer,
                     "readingValueDate": "string"
                  }
               ]
            }
         ]
      }
   ],
   "oldContractInfo": [
      {
         "contractType": "string",
         "consumerCode": "string",
         "object": {
            "objectNumber": "string",
            "meterNumbers": [
               "string"
            ],
            "objectAddress": "string",
            "contractModel": "string",
            "tariffPlan": "string",
            "timeZone": "string",
            "ownershipDocumentNumber": "string",
            "ntGetCoownerConsent": boolean,
            "auctionDate": "string",
            "accountingType": "string",
             "usedPowerPlants": [
               {
                  "powerPlantObjectNumber": "string",
                  "generatingObjectType": "string",
                  "powerPlantType": "string",
                  "accountingScheme": "string",
```

| | |
|---|---|
| | "payoffMethod": "string"<br>}<br>]<br>}<br>}<br>]<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom, submittedDateTo contractStartDateFrom, contractStartDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.5.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the notification (ID), which must be the first in the return list (starting from 0). The default value is 0. |
| count (*query*) | integer | N | The number of notification (ID) rows in the return list. Optional. The default value is 30. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is DESC. |

#### 7.5.1.2 JSON request structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | N | Person / company code. |
| objectNumber | string | N | Object number. |
| notificationId | integer | N | Notification identification (ID). |
| contractStartFrom | string (date) | N | Contract start date from. |
| contractStartTo | string (date) | N | Contract start date to. |
| submittedDateFrom | string (dateTime) | N | Submitted date from. |

| | | | |
|---|---|---|---|
| submittedDateTo | string (dateTime) | N | Submitted date to. |
| latestStatuses | list of strings | N | Notification status. Possible meanings:<br>• P – Submitted<br>• I - Sent<br>• A - Cancelled<br>• V - In progress<br>• IV - Completed<br>• K – Error |
| userNameSearch | string | N | The user who created a notification. |
| changeTye | list of strings | N | Change type. Possible meanings:<br>• SK - Owner change<br>• STK - Owner and supplier change<br>• NTK – Supplier change |
| supplierContractNo | string (30) | N | Supplier contract number. |
| objectAddressSearch | string | N | Object full address. |
| declarated | boolean | N | Indication that there are meter scales declarations. Possible meanings:<br>• true<br>• false |

#### 7.5.1.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Notification identification number (ID). |

| | | | |
|---|---|---|---|
| changeType | string | Y | Change type. Possible meanings:<br><br>• SK - Owner change<br>• STK - Owner and supplier change<br>• NTK – Supplier change |
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |
| contractStart | string (date) | Y | Date of entry into force of the notification subject to the independent supplier from. |
| supplierContractNo | string | N | Contract number. Must be completed and is mandatory only in the change of owner and supplier / change of supplier. |
| notes | string | N | Notes. |
| userName | string | N | The user, who created the post. |
| submittedDate | string (dateTime) | Y | Submitted date of notification. |
| latestSatus | string | Y | Latest status of notification. |

| | | | |
|---|---|---|---|
| errorType | string | N | Notification error type if status is K (Error). Possible meanings:<br><br>• SP - The contract has already been rewritten<br>• KL - Incorrect message<br>• AG - Invalid person code / birth data<br>• SN - Change of owner is not possible because the data in the old contract does not match<br>• SK - The owner has a contract, the change of owner is not possible for the same person<br>• DL - The owner has a contract, the independent supplier is assigned to the object<br>• NT - Cancellation at the Supplier's request<br>• NO - client is not the owner of the object<br>• AO – Cancelled because in submitted notification, one or more objects are already involved in the previous notification. If more than one object is involved in the notifications, the combinations of the objects of both queries must match.<br>• AP – Cancelled because a newer message has been received that includes all the objects listed in this notification.<br><br>Notification error type if status is IV (Completed). Possible meanings:<br><br>• RP - The contract has been rewritten but the meter scale(s) declarations have not been accepted by ESO, please submit the meter scale(s) declarations via the NT Portal. |
| correspondenceAddress: {} - *Object correspondence address.* | | | |
| addressLine | string | N | Not structured full address title. |
| street | string | N | Street. |
| building | string | N | House. |
| housingNo | string | N | Housing. |
| apartment | string | N | Flat. |
| locality | string | N | Town / Village. |
| eldership | string | N | Eldership. |
| municipality | string | N | Municipality. |
| country | string | N | Country. |

| | | | |
|---|---|---|---|
| ownerInfo: {} - *Contract owner / tenant information.* | | | |
| subjectType | string | Y | Contract owner / tenant person type. Possible meanings:<br>• FAS – individual<br>• JAS - Juridical |
| personName | string | Y | Contract owner / tenant / company name. |
| personSurname | string | N | Contract owner / tenant surname. |
| personCode | string | N | Contract owner / tenant person / company code. |
| birthDate | string (date) | N | Contract owner / tenant birth date. |
| vatCode | string | N | Contract owner / tenant VAT code. |
| representativeName | string | N | Representative name. |
| representativeSurname | string | N | Representative surname. |
| representativeDuty | string | N | Representative duty. |
| ownerInfo.contacts: {} - *Contract owner / tenant contacts.* | | | |
| mobPhoneNoNetwork | string | N | Mobile phone number for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| mobPhoneNo2Network | string | N | Mobile phone number 2 for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| mobPhoneNoInvoice | string | N | Mobile phone number for bills (contact details for informing about formed invoices and provided services). |
| telPhoneNoNetwork | string | N | Phone number for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| emailNetwork | string | N | An email address for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| email2Network | string | N | An email address 2 for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |

| | | | |
|---|---|---|---|
| emailInvoice | string | N | An email address for bills (contact details for informing about formed invoices and provided services). |
| contractNotificationStatus: [] - *Contract notification statuses.* | | | |
| status | string | Y | Notification status. Possible meanings:<br><br>• P – Submitted<br>• I – Sent<br>• A – Cancelled<br>• V - In progress<br>• IV – Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Status date. |
| objects: [] - *Notification objects.* | | | |
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Object address. |
| contractModel | string | Y | Contract model of the current object. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| tariffPlan | string | N | Chosen tariff plane of the object. |
| timeZone | string | N | Current time zone of the object. Possible meanings:<br><br>• 1 – One<br>• 2 – Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |

| | | | |
|---|---|---|---|
| objectNtr | string | N | Real estate cadaster and register number of the object of the State Enterprise Registers Center. |
| objectNtrDate | string (date) | N | Date of the Real estate cadaster and register number of the object of the State Enterprise Register Center. |
| uniqueRoomNo | string | N | Unique room number. |
| ntGetCoownerConsent | boolean | Y | Indication of whether the independent supplier has obtained the consent of the co-owner. Possible meanings:<br><br>• true<br>• false |
| auctionDate | string (date) | N | Date of acquisition of the object from the auction. |
| anotherSupplierContractCancellation | string | N | The field is filled in when contracts with another supplier are canceled with this notification. Possible combinations of cancellation:<br><br>• NTK -> NTK<br>• STK -> SK<br>• SK -> STK<br><br>"Ši užklausa atšaukė objekto sutartį su *[independentSupplierName]* datai [contractStart]". |
| cancelledByAnotherSupplier | boolean | N | The field is filled in if the object of the notification was canceled with a notification from another supplier. Possible meanings:<br><br>• true<br>• false |

| | | | |
|---|---|---|---|
| cancelledByAnotherSupplierDetails | string | N | JSON attribute's cancelledByAnotherSupllier additional information.<br><br>The field is filled in if the object of the notification was canceled with a notification from another supplier. Possible combinations of canceled notification:<br><br>• NTK -> NTK<br>• STK -> SK<br>• SK -> STK<br><br>"Šią objekto sutartį atšaukė objekto sutartis *su [independentSupplierName]* datai [contractStart]". |
| objects.usedPowerPlants: [] - *The data of the used power plants are changed.* | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| objects.meterDeclarations: [] - *Object meter declarations.* | | | |
| meterNumber | string | N | Object meter’s number. |
| objects.meterDeclarations.meterReadings: [] - *Object meter readings.* | | | |

| | | | |
|---|---|---|---|
| scaleIdentifier | string | N | Internal scale identifier. Possible meanings:<br><br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleProduct | string | N | Internal scale product. Possible meanings:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingValue | integer | N | Meter's scale reading value. |
| readingValueDate | string (date) | N | Meter’s scale reading value date. |
| oldContractInfo: [] - *Old contract data.* | | | |
| contractType | string | Y | Contract type of the current object. Possible meanings:<br><br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| consumerCode | string | Y | Consumer code. |

| old.ContractInfo.object: {} - *Old contract objects information.* | | | |
|---|---|---|---|
| objectNumber | string | Y | Object number. |
| meterNumbers | string | N | Object meter (meters). |
| objectAddress | string | Y | Object address. |
| contractModel | string | Y | Contract model of the current object. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| tariffPlan | string | Y | Tariff plan of the object. |
| timeZone | string | Y | Current time zone of the object. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| ownershipDocumentNumber | string | N | Ownership document number. |
| ntGetCoownerConsent | boolean | Y | Indication of whether the independent supplier has obtained the consent of the co-owner. Possible meanings:<br><br>• true<br>• false |
| auctionDate | string (date) | N | Date of acquisition of the object from the auction. |

| | | | |
|---|---|---|---|
| accountingType | string | Y | Object accounting type at the time of notification submission. Possible meanings:<br><br>• NET_METERING – accumulates kwh (**explanation**: The object has power plant (-s) in use, the accounting scheme of which is net metering).<br>• NET_BILLING – accumulates Eur (**explanation:** The object has power plant (-s) in use, the accounting scheme of which is net metering).<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur (**explanation:** The object uses power plants with net metering and net billing accounting schemes)<br>• POWER_PLANT - sells kwh (**explanation:** The object is power plant and does not have power plants in use).<br>• CONSUMER - only consuming (**explanation:** The object is only consuming)<br>• ENERGY_SHARER – sharing kw (**explanation:** The object is a power plant, but the energy it generates is distributed to other objects). |
| oldContractInfo.object.usedPowerPlants: [] - *Data of used power plants of object.*<br><br>**Note:**<br>• When the change type is NTK, the power plants of the object are displayed all.<br>• When the change type is SK or STK, the power plants of the object are displayed only that one which has generating consumer type G. | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| powerPlantType | string | N | Type of used power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |

| | | | |
|---|---|---|---|
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered el. energy<br>• G - kW – Power plant installed capacity<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |

### 7.5.2 POST /gateway/notification/v2/contract

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v2/contract |
| **Description** | The method is for NT to transfer contract owner / contract owner and supplier / supplier changes to DH. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "changeType": "string", "contractType": "string", "contractStart": "string", "consentSign": boolean, "supplierContractNo": "string", "notes": "string", "correspondenceAddress": { "street": "string", "building": "string", "housingNo": "string", "appartament": "string", |

```
    "locality": "string",
    "eldership": "string",
    "municipality": "string",
    "county": "string"
},
"ownerInfo": {
    "subjectType": "string",
    "personName": "string",
    "personSurname": "string",
    "personCode": "string",
    "birthDate": "string",
    "vatCode": "string",
    "representativeName": "string",
    "representativeSurname": "string",
    "representativeDuty": "string",
    "contacts": {
        "mobPhoneNoNetwork": "string",
        "mobPhoneNo2Network": "string",
        "mobPhoneNoInvoice": "string",
        "telPhoneNoNetwork": "string",
        "emailNetwork": "string",
        "email2Network": "string",
        "emailInvoice": "string"
    }
},
"objects": [
    {
        "objectNumber": "string",
        "tariffPlan": "string",
        "contractModel": "string",
        "timeZone": "string",
        "objectNtr": "string",
        "objectNtrDate": "string",
        "uniqueRoomNo": "string",
        "ntGetCoownerConsent": "boolean",
        "auctionDate": "string",
        "meterDeclarations": [
```

| | |
|---|---|
| | <pre>{<br>"meterNumber": "string",<br>"meterReadings": [<br>{<br>"scaleIdentifier": "string",<br>"scaleProduct": "string",<br>"readingValue": "integer",<br>"readingValueDate": "string"<br>}<br>]<br>}<br>],<br>"usedPowerPlants": [<br>{<br>"powerPlantObjectNumber": "string",<br>"accountingScheme": "string",<br>"payoffMethod": "string"<br>}<br>]<br>}<br>]<br>}</pre> |
| **JSON response** | <pre>{<br>"notificationId": integer<br>}</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Rules apply | Error code | Error message | Attributes |
|---|---|---|---|---|
| SK - the relevant rule for change of owner<br>STK - the relevant rule for change of owner and supplier | | | | |

| NTK - the relevant rule for change of supplier | | | | |
|---|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | | All attributes with specified values. |
| Time-limited objects cannot be changed if they are expired.<br><br>For example,<br>• If the time-limited object expiry date is 12-20 and the current date is 12-20 then 12-20=12-20 → the system displays error message.<br>• If the time-limited object expiry date is 12-20 and the current date is 12-22 then 12-20<12-22 → the system displays error message.<br>• If the time-limited object expiry date is 12-21 and the current date is 12-20 then 12-21>12-20 → there is no error. | SK, STK | 5 | Change not possible. Time-limited objects: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* are expired. | objectNumber |
| Submitted object cannot have the same / matching meters numbers. | SK, STK, NTK | 6 | Change not possible. Objects: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* have the same / matching meter number. | objectNumber |
| The meaning of the "objectNumber" notification cannot be repeated. | SK, STK, NTK | 7 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| Must be specified valid object. | SK, STK, NTK | 8 | The object**:** *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is not valid. | objectNumber |
| If "changeType" is **SK**, then the object must belong to a valid supplier contract that provides the notification. | SK | 9 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not belong to a valid supplier contract. | objectNumber |
| All objects of the notification must belong to the same contract. | SK, STK, NTK | 43 | Change not possible. Different contracts for submitted objects. | objectNumber, consumerCode |

| | | | | |
|---|---|---|---|---|
| If the attribute "changeType" equals **SK** or **STK**, then object numbers within the notifications must match the object numbers in the submitted notifications. This verification should occur among notifications whose status is neither **Canceled**, **Error**, or **Completed**.<br><br>For example,<br><br>Objects "X", "Y" have the notification of the owner change in the system with the status **in Progress** and contract start date is 2024-10-01.<br><br>• A new SK2 notification is submitted for the object "X", where contract start date is 2024-10-01 → the system displays error message, because in notification SK2 object "Y" is missing.<br>• A new SK3 notification is submitted for the object "Y", where contract start date is 2024-01-01 → the system displays error message, because in notification SK3 object "X" is missing.<br>• A new SK4 notification is submitted for the object's "X" and "Y", where contract start date is 2024-10-1 → there is no error.<br><br>A new SK5 notification is submitted for the objects "X", "Y", "Z", where contract start date is 2024-01-01 → the system displays error message, because there is no object "Y" in notification SK1. | SK, STK | 165 | Change is not possible. In submitted request, one or more objects are already involved in the previous request. If more than one object is involved in the queries, the combinations of the objects of both queries must match. | objectNumber, changeType |
| If the attribute "subjectType" is **JAS**, the attribute "contractType" meaning must be equal to **SKMS**. | SK, STK, NTK | 10 | If the contract owner / tenant person type is "Juridical", the contract type must be "SKMS". | subjectType, contractType |
| If the attribute "changeType" is **NTK**, the values of the attribute "contractType" and "subjectType" must match the current contract type of the object and the person type of the owner. | SK, STK, NTK | 129 | The contract type and the contract owner's person type must match the current contract type and the contract owner type. | contractType, subjectType, changeType |
| If "changeType" is **SK** or **STK**, then the attribute "contractStart" can be equal to the current date or later than current.<br><br>For example, | SK, STK | 11 | Date of the contract start *[contractStart]* can be equal to the current date or later then current. | contractStart, objectNumber, changeType |

| | | | | |
|---|---|---|---|---|
| • If the current date is 2021-02-08, then "contractStart" start date can be any date inclusive from 2021-02-08 to X date in the future. | | | | |
| If `changeType` is `NTK`, then the attribute `contractStart` must be equal to the first day of the month.<br><br>**Important:** This validation rule is expected to no longer apply from 1 January 2027 (the effective date is subject to change) to requests where all included objects are eligible for express supplier change. In such cases, validation rule 220 will be applied. If at least one object is not eligible for express supplier change, the current validation logic will continue to apply. | NTK | 111 | Date of the contract start *[contractStart]* must be equal to the first day of the month. | contractStart, objectNumber, changeType |
| If `changeType` is `NTK`, it is checked whether the date of entry into force of the contract is given correctly:<br><br>• Notifications of the concluded contract must be submitted by the day of the month specified in the configuration, and the contract may enter into force at the earliest from the first day of the following month.<br><br>For example,<br><br>Configuration date is 18 d.<br><br>• Current date 2021-09-17 this is the earliest contract that can be concluded on October 1.<br>• Current date 2021-09-20 this is the earliest contract that can be concluded on November 1.<br><br>**Important:** This validation rule is expected to no longer apply from 1 January 2027 (the effective date is subject to change) to requests where all included objects are eligible for express supplier change. In such cases, validation rule 220 will be applied. If at least one object is not eligible for express supplier change, the current validation logic will continue to apply. | NTK | 113 | The effective date of the contract must not be less than *[date]*. | contractStart, objectNumber, changeType |

| | | | | |
|---|---|---|---|---|
| If `changeType` is `NTK`, it is checked whether all objects included in the request are eligible for express supplier change.<br><br>• If the request is submitted before 22:00, the contract start date may be the next calendar day or any later date.<br>• If the request is submitted at or after 22:00, the contract start date may be the day after next or any later date.<br><br>**Examples**<br><br>If the current date is **2026-08-20**:<br><br>• a request submitted **before 22:00** may use **2026-08-21** or any later date as the contract start date;<br>• a request submitted at or **after 22:00** may use **2026-08-22** or any later date as the contract start date.<br><br>If at least one object included in the request is not eligible for express supplier change, the existing contract start date validation rules continue to apply (see rules 111 and 113).<br><br>**Important:** This validation rule is expected to take effect on 1 January 2027 (the effective date is subject to change). | NTK | 220 | The contract effective date must be *{earliest calculated date}* or later. | contractStart |
| If "changeType" is **NTK**: when submitting a new supplier change notification, the system must be checked for the presence of supplier change notification with a status not Canceled and not Error. | NTK | 116 | Due to possible duplication of information, such a notification to object *[objectNumber]* is not possible. Please try after 30 minutes. | contractStart, objectNumber, changeType |
| If "changeType" is **NTK**, then a change of supplier notice shall not be permitted if a change of owner and supplier notice is in progress. It should not be allowed only if the object number and the date of contract start force of the contract coincide in the notifications. | NTK | 117 | For object *[object number (if more than one is separated by a semicolon)]*, a change of supplier is already in progress with the owner and supplier change request. | contractStart, objectNumber, changeType |
| If "changeType" is **STK**, then the attribute "contractStart" can be equal to the current date or later, but not later than the last day of the following month. | SK, STK | 118 | Date of the contract start *[contractStart]* can be equal to the current date or later, but not later than *[the last day of the following month]*. | contractStart, objectNumber, changeType |

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| For example,<br><br>If the current date is 2023-05-11, then "contractStart" start date can be any date inclusive from 2023-05-11 to 2023-06-31 date in the following month. | | | | |
| If the attribute "changeType" is **STK** or **NTK** then mandatory attribute is "supplierContractNo". | STK, NTK | 14 | "Contract No." is mandatory. | supplierContractNo |
| For `NTK` requests where `contractType` is `SBTS` and the object is eligible for express supplier change, it is verified whether a supplier change for the current owner of the same object has already become effective during the current month.<br><br>If a supplier change has already become effective for the current owner of the object during the current month, the next supplier change may take effect no earlier than the first day of the following month.<br><br>A change of ownership resets this restriction. Therefore, supplier changes that became effective for a previous owner of the object are not considered.<br><br>**Examples**<br><br>**1) Current owner has not changed during the current month**<br><br>• A supplier change became effective for the object on **2026-08-15**.<br>• A new supplier change request is submitted for the same object with a contract effective date of **2026-08-22**.<br>• The owner of the object has not changed.<br><br>**Result:** An error message is displayed because a supplier change for the same object has already become effective for the current owner during the current month. | NTK | 221 | A supplier change for the object *{objectNumber}* has already been completed during the current month. | objectNumber, contractStart |

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| **2) Current owner changed during the current month**<br><br>• A supplier change became effective for the object on **2026-08-15**.<br>• The owner of the object changed after the supplier change became effective.<br>• A new supplier change request is submitted for the same object with a contract effective date of **2026-08-22**.<br><br>**Result:** The request can be submitted because supplier changes made for the previous owner are not considered.<br><br>**Important:** This validation rule is expected to take effect on 1 January 2027 (the effective date is subject to change). | | | | |
| If the attribute "subjectType" is **FAS**, then the mandatory attributes are:<br><br>• "personName"<br>• "personSurname"<br>• "personCode" or "birthDate" | SK, STK, NTK | 18 | If the person type of the contract owner / tenant is "Physical", the "Name" and "Surname" and "Personal identification code" or "Date of birth" are mandatory. | personName, personSurname, personCode, birthDate, subjectType |
| If the attribute "subjectType" is **JAS**, then the mandatory attributes are:<br><br>• "personName"<br>• "personCode" | SK, STK, NTK | 19 | If the person type of the contract owner / tenant is "Juridical", then "Company Name" and "Company Code" are mandatory. | personName, personCode, subjectType |
| If "changeType" is **SK** or **STK** or **NTK** and if the attribute "contractType" is **SBTS**, then must be at least one contact attribute:<br><br>• "mobPhoneNoNetwork"<br>• "telPhoneNoNetwork"<br>• "emailNetwork" | SK, STK, NTK | 20 | If the contract type is "SBTS", it is mandatory to specify at least one attribute for network work: "Mobile phone no." or "Phone no." or "Email address". | mobPhoneNoNetwork, emailNetwork, contractType, changeType |
| If "changeType" is **SK** or **STK** or **NTK** and attribute "contrctType" is **SKMS** then must be at least one contact attribute: | SK, STK, NTK | 21 | If the contract type is "SKMS", it is mandatory to specify one of the contacts for network work: "Mobile phone no." or "Email Address" and one of | mobPhoneNoNetwork, emailNetwork, mobPhoneNoInvoice, |

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| • "mobPhoneNoNetwork" or "emailNetwork".<br>and at least one contact attribute of the bills from:<br>• "mobPhoneNoInvoice" or "emailInvoice".<br>Exception applies only for "changeType" **NTK**:<br>• Contacts "Mobile phone no" and / or "Email Address" for network work AND contacts "Mobile phone no" and / or "Email Address" for accounts is specified in ESO systems. Rule 21 will not be provided.<br>• Contacts "Mobile phone no" and "Email Address" for network work AND contacts "Mobile phone no" and "Email Address" for accounts is not specified in ESO systems. Rule 21 will be provided.<br>• Contacts "Mobile phone no" and / or "Email Address" for network work is specified in ESO systems AND contacts "Mobile phone no" and "Email Address" for accounts is not specified in ESO systems. Without specifying at least one of the required contacts for accounts rule 21 will be provided.<br>Contacts "Mobile phone no" and / or "Email Address" for network work is not specified in ESO systems AND contacts "Mobile phone no" and "Email Address" for accounts is specified in ESO systems.<br>Without specifying at least one of the required contacts for network work rule 21 will be provided. | | | the contacts for accounts: "Mobile Phone no." or "Email Address". | emailInvoice, contractType, changeType |
| If "changeType" is **SK** or **STK** or **NTK** and If the attribute "contractType" is **SBTS** then attributes "mobPhoneNoInvoice" and "emailInvoice" cannot be filled. | SK, STK, NTK | 41 | If the contract type "SBTS", then invoice mob. tel. No. and invoice email address cannot be filled. | contractType, mobPhoneNoInvoice, emailInvoice |
| The format of the attributes "mobPhoneNoNetwork", "mobPhoneNo2Network", "mobPhoneNoInvoice" must be. +3706XXXXXXX, X - an integer (0 must be included). | SK, STK, NTK | 22 | Mob. tel. No., mob. tel. No. (optional) and phone no. incorrect format. | mobPhoneNoNetwork, mobPhoneNo2Network, telPhoneNoNetwork, mobPhoneNoInvoice |

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| • The format of the attribute "telPhoneNoNetwork" must be: +370XXXXXXXX, X - an integer (0 must be included). The next number after +370 cannot be 6. | | | | |
| The format of the attributes "emailNetwork", "email2Network", "emailInvoice" must be [text][@][text][.domain], letters in the text must be Latin.<br><br>Can be at most 49 characters up to @ symbol and cannot begin/end with a dot or special character. | SK, STK, NTK | 23 | An email address, optional email address and invoice email address incorrect format. | emailNetwork, email2Network, emailInvoice |
| The value of attribute "birthDate" cannot be later than the current date. | SK, STK, NTK | 37 | A birth date cannot be later than the current date. | birthdate |
| If "changeType" is **SK** or **STK**, the current contract owner cannot match the newly submitted owner. | SK, STK | 24 | The owner *[personName personSurname (personSurname is displayed if subjectType = FAS)]* coincides with the owner of the current contract. | subjectType, personSurname, personName, personCode, birthDate, contractStart |
| If "changeType" is **NTK**, then in the context of the object, the provided owner must match the owner of the current contract. | NTK | 121 | The owner *[personName personSurname (personSurname is displayed if subjectType = FAS)]* does not match the owner of the current contract. Request a change of owner and supplier. | changeType, personCode, personName, personSurname, birthDate |
| • If the attribute "subjectType" is **FAS**, then the attribute "personCode" must be 11 digits.<br>• If the attribute "subjectType" is **JAS**, then the attribute "personCode" must be 9 digits. | SK, STK, NTK | 44 | The personal code must consist of 11 digits, the company code - 9 digits. | subjectType, personCode |
| If the attribute "subjectType" is JAS, then the attributes "birthDate" and "personSurname" cannot be specified. | SK, STK, NTK | 45 | If the contract owner / tenant person type is "Juridical", the birth date and surname cannot be specified. | subjectType, birthDate, personSurname |
| If the attribute "subjectType" is **FAS**, then the attribute "personName" must be up to 50 symbols. | SK, STK, NTK | 46 | If the contract owner / tenant person type is "Individual", the name must be up to 50 symbols. | subjectType, personName |
| If the attribute "contractType" is **SKMS** and at least one of the attributes "representativeName", "representativeSurname", "representativeDuty" is specified, all three attributes must be filled in. | SK, STK, NTK | 141 | If the contract type is "SKMS" and at least one attribute of the representative is specified, all three attributes must be indicated: "Representative | contractType, representativeName, representativeSurname, representativeDuty |

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| | | | name", "Representative surname", "Representative duty". | |
| If the attribute "contractType" is **SBTS**, then the attributes "representativeName", "representativeSurname" and "representativeDuty" cannot be specified. | SK, STK, NTK | 147 | If the contract type is "SBTS", the name, surname and the duty of the representative cannot be specified. | contractType, representativeName, representativeSurname, representativeDuty |
| If "changeType" is **STK** or **SK** and atribute "contractType" is SKMS then ten attribute "vatCode" can be filled. | SK, STK | 211 | The VAT code can be filled, when change type is "SK" or "STK" and contract type is "SKMS". | changeType, contractType, vatCode |
| If the attribute "contractType" is **SKMS** and attribute "changeType" is **NTK** and there is specified at least one contact for network work, then attributes cannot be filled:<br><br>• "mobPhoneNoNetwork"<br>• "emailNetwork" | NTK | 163 | Contact cannot be specified. One of the contacts for network work: "Mob. phone no." and / or "Email Address" is submitted. | mobPhoneNoNetwork, emailNetwork |
| If the attribute "contractType" is **SKMS** and attribute "changeType" is **NTK** there is specified at least one contact for accounts, then attributes cannot be filled:<br><br>• "mobPhoneNoInvoice"<br>• "emailInvoice" | NTK | 162 | Contact cannot be specified. One of the contacts for accounts: "Mob. phone no." and / or "Email Address" is submitted. | mobPhoneNoNetwork, emailNetwork |
| If the attribute "contractType" is **SBTS**, must be specified valid "tariffPlan"**.** | SK, STK, NTK | 35 | There is no tariff plan *[tariffPlan (if there is more than one object, objects must be separated by the semicolon)]***.** | tariffPlan, contractType |
| If the attribute ''changeType'' is **SK** or **STK** and "contractType" is **SBTS**, then the mandatory attributes are:<br><br>• "tariffPlan"<br>• "timeZone" | SK, STK | 28 | If the contract type is "SBTS", it is mandatory to indicate "Tariff Plan" and "Time Zone". | tariffPlan, timeZone, contractType |
| If the attribute "changeType" is **NTK**, "contractType'' is **SBTS** and if at least one attribute is specified ''tariffPlan'' or ''timeZone''. Then both must be specified. | NTK | 122 | If the contract type is "SBTS" and "Tariff Plan" or "Time Zone" is specified, then both must be specified. | tariffPlan, timeZone, contractType |

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| If the attribute "contractType" is **SBTS** and the current tariff plan of object is **Vidutinė įtampa**, then the new "tariffPlan" must be **Vidutinė įtampa**. | SK, STK, NTK | 48 | If the contract type is "SBTS" and the current tariff plan of object *[objectNumber]* is "Vidutinė įtampa", then the new tariff plan must be "Vidutinė įtampa" | tariffPlan, contractType |
| If the attribute "changeType" is **SK** or **STK**, "contractType" is **SKMS**, then attribute "timeZone" is required. | SK, STK | 123 | If the contract type is "SKMS" it is mandatory to indicate "Time zone". | contractType, changeType, timeZone |
| If the object "contractType" is **SKMS** and "permitablePowerConsumption" <=30 kw, the attribute's "timeZone" possible meanings 1 or 2. | SK, STK, NTK | 124 | If the contract type is "SKMS" of the object: *[objectNumber]* and permitable power consumption <= 30 kw, then the time zone must be "One" or "Two". | contractType, changeType, timeZone, power |
| If the object "contractType" is **SKMS** and "permitablePowerConsumption" > 30 kw, the attribute's "newTimeZone" possible meanings VR or DR. | SK, STK, NTK | 125 | If the contract type is "SKMS" of the object: *[objectNumber]* and permittable power consumption > 30 kw, then the time zone must be "One with reactive" or "Differentiated with reactive ones". | contractType, changeType, timeZone, power |
| • If the attribute "changeType" is **SK or STK**, "contractType" is **SKMS** and the object failed to determine the valid usable power, the change is not possible.<br>• If the attribute "changeType" is **NTK**, "contractType" is **SKMS** and the attribute "timeZone" is specified, then if the object failed to determine the valid usable power, then the change is not possible. | SK, STK, NTK | 127 | Failed to set usable power for the object *[objectNumber].* | changeType, contractType, timeZone |
| If the "contractType" is **SKMS**, then the attribute "tariffPlan" cannot be specified. | SK, STK, NTK | 126 | If the contract type is "SKMS", then the tariff plan cannot be specified. | contractType, changeType, tariffPlan |
| If the "changeType" is **SK** or **STK**, then the attribute "ntGetCoowenerConsent" is required. | SK, STK | 140 | The attribute "NT get coowner consent" is required. | ntGetCoownerConsent |
| The attribute "contractModel" must match for all objects. | SK, STK, NTK | 148 | The contract model must match for all objects. | objectNumber, contractModel |
| Must be specified valid used power plants of the object. | SK, STK, NTK | 200 | Used power plant *[usedPowerPlants.powerPlantObjectNumber]* of the object *[objectNumber]* is not valid or not exist. | usedPowerPlants.powerPlantObjectNumber |

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| The number of the power plant used for the same object cannot be repeated. | SK, STK, NTK | 201 | The numbers of the used power plants is repeating for object *[objectNumber]*. | usedPowerPlants.powerPlantObjectNumber |
| If at least one of the used power plants attributes "usedPowerPlants.powerPlantObjectNumber", "usedPowerPlants.accountingScheme", "usedPowerPlants.payoffMethod" is specified, then attributes must be indicated:<br><br>• "The power plant number"<br>• "Generating consumer accounting scheme" | SK, STK, NTK | 202 | If at least one attribute of the used power plant is specified, it is mandatory to specify attributes: "The power plant number", "Generating consumer accounting scheme". | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |
| If attribute "usedPowerPlants.accountingScheme" is filled with the value **NET_METERING**, then the attribute "usedPowerPlants.payoffMethod" is mandatory. | SK, STK, NTK | 203 | If generating consumer accounting scheme of used power plant is filled "Net metering", then payoff method must be included. | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme usedPowerPlants.payoffMethod |
| Attribute's "usedPowerPlants.accountingScheme" possible meaning is **NET_METERING**. If value is specified **NET_BILLING**, then error message be displayed. | SK, STK, NTK | 204 | The selection of the generating consumer accounting scheme "Net billing" is not possible. | usedPowerPlants.accountingScheme |
| If the attribute "changeType" is **SK** or **STK**, then the attributes "usedPowerPlants.accountingScheme" and "usedPowerPlants.accountingScheme" cannot be filled if used power plant consumer type is not generating consumer "usedPowerPlants.generatingObjectType" is not **G** and "contractType" is not **SBTS.** | SK, STK | 205 | Generating consumer accounting scheme and payoff method of used power plant can be filled, if consumer type is GV and contract type - SBTS. | usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod, usedPowerPlants.generatinObjectType |
| If the attribute "changeType" is **NTK**, then the attributes "usedPowerPlants.accountingScheme" and "usedPowerPlants.payoffMethod" cannot be filled if used power plant consumer type is not generating consumer ("usedPowerPlants.generatingObjectType" is not **G**) or remote generating consumer ("usedPowerPlants.generatingObjectType" is not **N**) and "contractType" is not **SBTS.** | NTK | 206 | Generating consumer accounting scheme and payoff method of used power plant can be filled, if consumer type is GV or NGV and contract type - SBTS. | usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod, usedPowerPlants.generatinObjectType |
| If the attribute "changeType" is **NTK** and "contractType" is **SBTS** and used power plant of the object is a generating user ("usedPowerPlants.generatingObjectType" is **G**) or used | NTK | 207 | Change not possible. Used power plant *[usedPowerPlants.powerPlantObjectNumber]* of the object: *[objectNumber]* possible generating capacity user accounting scheme change | changeType, contractType, usedPowerPlants.accountingScheme |

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| power plant of the object is a remote generating user ("usedPowerPlants.generatingObjectType" is **N**) and the attribute "usedPowerPlants.accountingScheme" (not null and does not match the current one) is specified, the accounting scheme can be changed if the date of the change in the GV accounting scheme is earlier or equal to the date of "Contract start". | | | *[usedPowerPlantObjects, accountingSchemeChangeDate]* date is later than the date of contract start. | |
| If the attribute "changeType" is **NTK** and "contractType" is **SBTS** and used power plant of the object is a generating user ("usedPowerPlants.generatingObjectType" is **G**) or used power plant of the object is a remote generating user ("usedPowerPlants.generatingObjectType" is **N**) and the attribute "usedPowerPlants.payoffMethod" (not null and does not match the current one) is specified, the payoff method can be changed if the date of the change in the GV payoff method is earlier or equal to the date of "Contract start". | NTK | 208 | Change not possible. Used power plant *[usedPowerPlants.powerPlantObjectNumber]* of the object: *[objectNumber]* possible generating capacity user payoff method change *[usedPowerPlantObjects.payoffMethod]* date is later than the date of contract start. | changeType, contractType, usedPowerPlants.payoffMethod |
| If the attribute "changeType" is **NTK** , "contractType" is **SBTS** and the accounting scheme and / or payoff method of used power plant is changing, then the accounting schemes and payoff methods of used power plants must match.<br><br>For example,<br><br>The object **X** has two used power plants with different accounting schemes:<br><br>• Used power plant **Y** has accounting scheme **NET_BILLING**<br>• Used power plant **Y** has accounting scheme **NET_METERING** and payoff method **S** (**kWh – PP recovered electricity**).<br><br>If changing the accounting scheme (from **NET_BILLING** to **NET_METERING**) and the payoff method for the used power plant **Y**, the selected payoff method must match the current payoff method of the used power plant **Z**. If the chosen payoff method does not match → an error message is displayed. | NTK | 209 | Change not possible. The accounting schemes and payoff methods of the used power plants of the object: *[objectNumber]* must match. | changeType, contractType, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |

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| If attribute *"changeType"* is **NTK**, then the attributes must not be specified:<br><br>• "objectNtr"<br>• "objectNtrDate"<br>• "auctionDate"<br>• "ntGetCoownerConsent"<br>• "uniqueRoomNo" | NTK | 130 | If the change type is "Supplier change", the attributes must not be specified: "Object ntr", "Object ntr date", "Auction date", "NT get coowner consent", "Unique room No.". | objectNtr, objectNtrDate, auctionDate, ntGetCoownerConsent, uniqueRoomNo, changeType |
| If the attribute "contractType" is **SBTS** then meaning of the "contractModel" attribute must be equal to **BSS**. | SK, STK, NTK | 16 | If the contract type is equal to "SBTS" then the contract model must be "BSS". | contractType, contractModel |
| • If the attribute "changeType" is **NTK**, "contractType" is **SBTS**, It is possible to change the tariff plan (not null and does not match the current one) and/or time zone (not null and does not match the current one) of the object, if the possible date of changing the tariff plan and/or time zone is earlier than or equal to the date of "Contract start".<br>• If the attribute "changeType" is **NTK**, "contractType" is **SKMS**, it is possible to change the time zone (not null and does not match the current one) of the object, if the possible date of changing the tariff plan is earlier than or equal to the date of "Contract start". | NTK | 131 | Change not possible. The object: *[objectNumber]* possible tariff plan change *[date]* date is later than the date of contract start. | tariffPlan, changeType, contractType, objectnumber |
| If:<br>• `changeType` is `NTK`;<br>• `contractType` is `SBTS`;<br>• the object is eligible for express supplier change;<br>• the selected time zone differs from the time zone currently assigned to the object;<br><br>The earliest allowed contract effective date is determined based on the request submission date and time.<br><br>• If the request is submitted **before 22:00**, the `contractStart` date must be no earlier than the **current date + 2 days.**<br>• If the request is submitted at or **after 22:00**, the `contractStart` date must be no earlier than the **current date + 3 days**. | NTK | 222 | The selected contract effective date is not valid. When a time zone change is selected, the earliest allowed contract effective date for object *{objectNumber}* is *{minAllowedDate}*. | changeType, objectNumber |

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| **Example**<br><br>**Current date: 2026-08-20**<br><br>• if a request with a time zone change is submitted before **2026-08-20 22:00**, the `contractStart` field may be set to **2026-08-22** or a later date;<br>• if a request with a time zone change is submitted at or after **2026-08-20 22:00**, the `contractStart` field may be set to **2026-08-23** or a later date.<br><br>**Important:** This validation rule is expected to take effect on 1 January 2027 (the effective date is subject to change). | | | | |
| If "objectNtrDate" is provided, it must not be later than the current date. | SK, STK | 166 | Date of the Real estate cadaster and register number of the object of the State Enterprise Register Center *[objectNtrDate]* must be equal to the current date or earlier than current. | objectNtrDate |
| If "auctionDate" is provided, it must not be later than the current date. | SK, STK | 167 | Date of acquisition of the object from the auction *[auctionDate]* must be equal to the current date or earlier than current. | auctionDate |
| If the attribute "changeType" is **SK** or **STK** and if at least one attribute is specified:<br><br>• "objectNtr"<br>• "objectNtrDate" | SK, STK | 216 | If the 'Real estate cadaster and register number of the object of the State Enterprise Registers Center' or "date of the Real estate cadaster and register number of the object of the State Enterprise Register" is filled in, both must be specified. | objectNtrDate, objectNtr |
| If the attribute "generatingobjectType" is **G** (generating consumer) or "generatingObjectType" is **N** (remote generating consumer), then fields must not be specified:<br><br>• "meterNumber"<br>• "scaleIdentifier"<br>• "scaleProduct"<br>• "readingValue"<br>• "readingValueDate" | SK, STK | 152 | If consumer type is generating user or remote generating consumer, then attributes "Meter number", "Scale identifier ", "Scale product", "Reading value", "Reading value date" must not be specified. | generatingObjectType, meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |

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| Reading values can only be filled for valid meters and scales. | SK, STK | 153 | The object *[objectNumber]* meter(s) and/or meter scale(s) does not exist or is no longer valid. Please check provided data. | meterNumber, scaleIdentifier, scaleProduct |
| It is mandatory to fill the scales of all meters in the object at the same time. | SK, STK | 154 | All meters with all scales of the *[objectNumber]* object must be filled. | meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| Meter scale and scale product cannot be repeated for the same object. | SK, STK | 155 | The object *[objectNumber]* meter *[meterNumber]* scale and scale product combination cannot be repeated. | meterNumber, scaleIdentifier, scaleProduct |
| If at least one of the reading statement attributes "meterNumber","scaleIdentifier", "scaleProduct" , "readingValue", "readingValueDate" is specified, then all attributes must be filled in. | SK, STK | 156 | If at least one attribute of the reading statement is specified, then all attributes must be in indicated: "Meter number", "Scale identifier", "Scale product", "Reading value", "Reading value date". | meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| Attribute "readingValueDate" can be equal to the current date or earlier then current.<br><br>For example,<br><br>If current date is 2023-11-27, then "readingValueDate" can be any date inclusive from 2023-11-27 to X date in the past. | SK, STK | 157 | The reading date *[readingValueDate]* must be equal to the current date or earlier than current. | readingValueDate |
| The attribute "readingValueDate" must match for all object's scales. | SK, STK | 158 | The reading date must match for all object's scales. | readingValueDate |
| The maximum number of characters in the reading "readingValue" is checked. | SK, STK | 159 | Incorrect number of digits in "Reading value" field. Please check maximum number of digits in scale. | readingValue |
| If "contractType" is **NTK**, then fields must not be specified:<br><br>• "meterNumber"<br>• "scaleIdentifier"<br>• "scaleProduct"<br>• "readingValue"<br>• "readingValueDate" | NTK | 160 | If contract type is NTK, then attributes "Meter number", "Scale identifier ", "Scale product", "Reading value", "Reading value date" must not be specified. | changeType, meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| The attribute "meterNumber" shall not be repeated in the message for the same object. | SK, STK | 164 | The meter numbers of the object *[objectNumber]* cannot be repeated. | objectNumber, meterNumber |

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| If the attribute **"**consentSign**"** is **false**, then the modification must be disabled. | SK, STK, NTK | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| If the attribute "contractType" is **SBTS**, then the meaning of the "tariffPlan" attribute must be one of:<br><br>• Namai<br>• Standartinis<br>• Efektyvus<br>• Vidutinė įtampa | SK, STK, NTK | 213 | If the contract type is SBTS, then the tariff plan must be "Namai" / "Standartinis" / "Efektyvus" / "Vidutinė įtampa". | tariffPlan, contractType |
| If the attribute "contractType" is **SBTS** and attribute "tariffPlan" is **Namai** or **Vidutinė įtampa**, then the attribute "timeZone" meaning must be 1 or 2. | SK, STK, NTK | 215 | If the contract type is SBTS and the tariff plan is "Namai" or "Vidutinė įtampa", then the time zone must be "One" or "Two". | timeZone, contractType, tariffPlan |
| If the attribute "contractType" is **SBTS** and attribute "tariffPlan" is **Standartinis** or **Efektyvus**, then the attribute "timeZone" meaning must be 1 or 2 or 4 (Smart). | SK, STK, NTK | 219 | If the contract type is SBTS and the tariff plan is "Standartinis" or "Efektyvus", then the time zone must be "One" or "Two" or "Four (Smart)". | timeZone, contractType, tariffPlan |
| If the attribute "contractType" is **SBTS**, then object "tariffPlan" **Vidutinė įtampa** cannot be specified, if current "tariffPlan" of object is not **Vidutinė įtampa**. | SK, STK, NTK | 218 | If the contract type is "SBTS" and the current tariff plan of object *[objectNumber]* is not "Vidutinė įtampa", then the new tariff plan can be "Namai" / "Standartinis" / "Efektyvus". | tariffPlan, contractType |
| Upon successful creation of a change of owner / owner and supplier / supplier request, the status of the request becomes **P** (Submitted). | SK, STK, NTK | | | |

#### 7.5.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| changeType | string | Y | Change type. Possible meanings:<br><br>• SK - Owner change<br>• STK - Owner and supplier change<br>• NTK - Supplier change |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| contractStart | string (date) | Y | Start date of entry into force of the contract at an independent supplier. |
| consentSign | boolean | Y | Indication of whether the data provided by the contract owner / owner and supplier are correct. Possible meanings:<br><br>• true<br>• false |
| supplierContractNo | string (30) | N | Contract number. |
| notes | string (4000) | N | Notes. |
| correspondenceAddress: {} - *Object correspondence address.* | | | |
| street | string (200) | N | Street. |
| building | string (100) | N | Building. |
| housingNo | string (100) | N | Housing. |
| apartament | string (20) | N | Flat. |
| locality | string (200) | N | Town / Village. |
| eldership | string (200) | N | Eldership. |
| municipality | string (200) | N | Municipality. |
| county | string (200) | N | County. |
| ownerInfo: {} - *Contract owner / tenant information.* | | | |
| subjectType | string | Y | Contract owner / tenant person type. Possible meaning:<br><br>• FAS - Individual<br>• JAS - Juridical |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personName | string (200) | Y | Contract owner / tenant / company name. |
| personSurname | string (50) | N | Contract owner / tenant surname. |
| personCode | string (20) | N | Contract owner / tenant person / company code |
| birthDate | string (date) | N | Contract owner / tenant birth date. |
| vatCode | string (15) | N | Contract owner / tenant VAT code. |
| representativeName | string (50) | N | Representative's name. Filled in when contract type is SKMS. |
| representativeSurname | string (50) | N | Representative's surname. Filled in when contract type is SKMS. |
| representativeDuty | string (100) | N | Representative's duty. Filled in when contract type is SKMS. |
| ownerInfo.contacts: {} - *Contract owner / tenant contacts.* | | | |
| mobPhoneNoNetwork | string (12) | N | Mobile phone number for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| mobPhoneNo2Network | string (12) | N | Mobile phone number 2 for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| mobPhoneNoInvoice | string (12) | N | Mobile phone number for bills (contact details for informing about formed invoices and provided services). |
| telPhoneNoNetwork | string (12) | N | Phone number for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| emailNetwork | string (49) | N | An email address for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| email2Network | string (49) | N | An email address 2 for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| emailInvoice | string (100) | N | An email address 2 for networks (contact details for information on network work (accounting maintenance, electrical disconnections and faults)). |
| objects: [] – *Notification objects.* | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string (20) | Y | Object number. |
| tariffPlan | string (200) | N | Chosen tariff plan of the SBTS contract. |
| contractModel | string (10) | Y | Contract model of the current object. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| timeZone | string | N | Current time zone of the object. Possible meanings:<br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive |
| objectNtr | string (20) | N | Real estate cadaster and register number of the object of the State Enterprise Registers Center. |
| objectNtrDate | string (date) | N | Date of the Real estate cadaster and register number of the object of the State Enterprise Register Center. |
| uniqueRoomNo | string (20) | N | Unique room number. |
| ntGetCoownerConsent | boolean | Y | The feature or independent supplier has received the consent of the co-owners. Possible meanings:<br>• true<br>• false |
| auctionDate | string (date) | N | Date of acquisition of the object from the auction. |
| objects.meterDeclarations: [] - *Object meter declarations.* | | | |
| meterNumber | string (20) | N | Object meter’s number. |
| objects.meterDeclarations.meterReadings: [] - *Object meter readings.* | | | |
| scaleIdentifier | string | N | Internal scale identifier. Possible meanings: |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleProduct | string | N | Internal scale product. Possible meanings:<br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingValue | integer | N | Meter's scale reading value. |
| readingValueDate | string (date) | N | Meter’s scale reading value date. |
| objects.usedPowerPlants: [] - *The data of the used power plants are changed.* | | | |
| powerPlantObjectNumber | string (8) | N | Object number of used power plant. |
| accountingScheme | string | N | Generating consumer accounting scheme. Possible meanings:<br>• NET_BILLING<br>• NET_METERING |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| payoffMethod | string | N | Generating consumer payoff method. Possible meanings:<br><br>• E – kWh – Recovered electricity<br>• G - kW – Permissible power of the power plant<br>• P - % - Payment percentage<br>• S - kWh - PP recovered electricity |

#### 7.5.2.2 JSON response structure

The following table describes the JSON structure in the event of a response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Notification identification number (ID). |

### 7.5.3 POST /gateway/notification/{notificationId}/contract/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/contract/cancel |
| **Description** | The method is to cancel the change of contract owner / contract owner and supplier / supplier notification. |
| **Parameter** | URL parameters: *notificationId*. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **Response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The request can be canceled:<br><br>• only one time<br>• when the notification state is **P** (Submitted)<br>• when the cancellation deadline has not passed (initial value - 1 hour). | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation of the owner / owner and supplier change request, the status of the request becomes **A** (Cancelled). | | | |

#### 7.5.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId (*path*) | integer | Y | The id of the notification to be canceled. |

## 7.6 Notification contract termination controller

### 7.6.1 POST /gateway/notification/v2/contract/termination/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v2/contract/termination/list |
| **Description** | Method to obtain information of the contract termination. |
| **Parameter** | URL parameters: *first, count, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"personCode": "string",<br>"objectNumber": "string",<br>"notificationId": integer,<br>"contractTerminationDateFrom": "string",<br>"contractTerminationDateTo": "string",<br>"submittedDateFrom": "string",<br>"submittedDateTo": "string",<br>"latestStatuses": [<br>"string"<br>],<br>"contractTerminationReason": "string",<br>"userNameSearch": "string",<br>"declarated": boolean<br>} |
| **JSON response** | [<br>{<br>"notificationId": integer,<br>"contractTerminationDate": "string",<br>"contractTerminationReason": "string",<br>"userName": "string",<br>"submittedDate": "string",<br>"latestStatus": "string",<br>"errorType": "string",<br>"objects": [<br>{ |

```
            "personName": "string",
            "personSurname": "string",
            "personCode": "string",
            "consumerCode": "string",
            "objectNumber": "string",
            "objectAddress": "string",
            "contractType": "string",
            "contractModel": "string",
            "contractStart": "string",
            "coowner": boolean,
            "coownerConsentDate": "string",
            "meterNumbers": [
               "string"
            ],
            "meterDeclarations": [
               {
                  "meterNumber": "string",
                  "meterReadings": [
                     {
                        "scaleIdentifier": "string",
                        "scaleProduct": "string",
                        "readingValue": integer,
                        "readingValueDate": "string"
                     }
                  ]
               }
            ]
         }
      ],
      "contractTerminationNotificationStatus": [
         {
            "status": "string",
            "statusDate": "string"
         }
      ]
   }
]
```

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.6.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the notification (ID), which must be the first in the return list (starting from 0). The default value is 0. |
| count (*query*) | integer | N | The number of notification (ID) rows in the return list. Optional. The default value is 30. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.6.1.2 JSON request structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string | N | Person / company code. |
| objectNumber | string | N | Object number. |
| notificationId | integer | N | Notification identification (ID). |
| contractTerminationDateFrom | string (date) | N | Contract termination date from. |
| contractTerminationDateTo | string (date) | N | Contract termination date to. |
| submittedDateFrom | string (dateTime) | N | Submitted date from. |
| submittedDateTo | string (dateTime) | N | Submitted date to. |
| latestStatuses | list of strings | N | Notification status. Possible meanings:<br>• P - Submitted<br>• A – Cancelled<br>• I – Sent<br>• V - In progress<br>• IV – Completed<br>• K - Error |
| contractTerminationReason | string | N | Contract termination reason. Possible meanings:<br>• N - The termination of the contract between customer and the supplier<br>• P - The termination of the contract between customer and the supplier in cases of sale or termination / end of the lease |

| | | | |
|---|---|---|---|
| | | | • L – Closure of the object in case of liquidation<br>• M – Termination due to death |
| userNameSearch | string | N | The user who created a notification. |
| declarated | boolean | N | Indication that there are meter scales declarations. Possible meanings:<br><br>• true<br>• false |

#### 7.6.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Notification identification (ID). |
| contractTerminationDate | string (date) | Y | Date of the contract termination. |
| contractTerminationReason | string | Y | Contract termination reason. Possible meanings:<br>• N - The termination of the contract between customer and the supplier<br>• P - The termination of the contract between customer and the supplier in cases of sale or termination / end of the lease<br>• L – Closure of the object in case of liquidation<br>• M – Termination due to death |
| userName | string | N | The user who created the post. |
| submittedDate | string (dateTime) | Y | Submitted date of notification. |
| latestStatus | string | Y | Notification latest status. Possible meanings:<br>• P - Submitted<br>• A – Cancelled<br>• I - Sent<br>• V - In progress<br>• IV – Completed<br>• K - Error |

| | | | |
|---|---|---|---|
| errorType | string | N | Notification error type if status is K (Error). Possible meanings:<br><br>• KT - Other works performed, the contract is not terminated, the object is not liquidated<br>• NL - Failed to access object, object not liquidated<br>• NP - The contract has already been terminated<br>• KL - Incorrect message<br>• NN - Termination is not possible because the data of the old contract does not match<br>• NS - Termination is not possible, the contract will be terminated with a change of the owner / owner and supplier notification<br>• ND – It is not possible to carry out liquidation work<br>• NA - Termination not possible, owner has not been changed<br><br>Notification error type if status IV (Completed). Possible meanings:<br><br>• RN - The contract has been terminated but the meter scale(s) declarations have not been accepted by ESO, please submit the meter scale(s) declarations via the NT Portal |
| objects: [] - *Notification objects.* | | | |
| personName | string | Y | Contract owner / tenant name. |
| personSurname | string | N | Contract owner / tenant name surname. |
| personCode | string | N | Contract owner / tenant person / company code. |
| consumerCode | string | Y | Contract owner / tenant consumer code. |
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Object address. |
| contractType | string | Y | Contract type. Possible meanings:<br><br>• SBTS - Household contract<br>• SKMS - Commercial contract |

| | | | |
|---|---|---|---|
| contractModel | string | Y | Contract model of the current object. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| contractStart | string (date) | Y | Date of entry into force of the notification subject to the independent supplier from. |
| coowner | boolean | N | Indication that there is co-owner. |
| coownerConsentDate | string (date) | N | Date of co-owner’s consent. |
| meterNumbers | list of strings | N | Object meter (meters). |
| meterDeclarations: [] - *Objects meter declarations.* | | | |
| meterNumber | string | N | Object meter’s number. |
| meterReadings: [] - *Object’s meters readings.* | | | |
| scaleIdentifier | string | N | Internal scale identifier. Possible meanings:<br><br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |

| | | | |
|---|---|---|---|
| scaleProduct | string | N | Internal scale product. Possible values:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingValue | integer | N | Meter's scale reading value. |
| readingValueDate | string (date) | N | Meter’s scale reading value date. |
| contractTerminationNotificationStatus: [] - *Contract termination notification statuses.* | | | |
| status | string | Y | Notification status. Possible meanings:<br><br>• P - Submitted<br>• A – Cancelled<br>• I - Sent<br>• V - In progress<br>• IV – Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Status date. |

### 7.6.2 POST /gateway/notification/contract/termination

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/contract/termination |

| | |
|---|---|
| **Description** | The method is for NT to transfer contract termination to DH. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"contractTerminationDate": "string",<br>"contractTerminationReason": "string",<br>"consentSign": boolean,<br>"objects": [<br>{<br>"objectNumber": "string",<br>"coowner": boolean,<br>"coownerConsentDate": "string",<br>"meterDeclarations": [<br>{<br>"meterNumber": "string",<br>"meterReadings": [<br>{<br>"scaleIdentifier": "string",<br>"scaleProduct": "string",<br>"readingValue": integer,<br>"readingValueDate": "string"<br>}<br>]<br>}<br>]<br>}<br>] |
| **JSON response** | {<br>"notificationId": integer<br>} |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| Submitted object cannot have the same / matching meters numbers. | 76 | Contract termination not possible. Objects: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* have the same / matching meter number. | objectNumber |
| The meaning of the "objectNumber**"** notification cannot be repeated. | 7 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating. | objectNumber |
| Must be specified valid object. | 8 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is not valid. | objectNumber |
| The object must belong to a valid supplier contract that provides the notification. | 9 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not belong to a valid supplier contract. | objectNumber |
| If the attribute "contractTerminationReason" is **P**, then the attribute "contractTerminationDate" can be equal to the current date or later.<br><br>Example,<br><br>If the current date is 2021-02-08, then "contractTerminationDate" start date can be any date from 2021-02-08 to X Day to the future. | 71 | Date of the contract termination [*contractTerminationDate*] can be equal to the current date or later. | contractTerminationDate |

| | | | |
|---|---|---|---|
| If the attribute "contractTerminationreason" is **L** or attribute "contractTerminationreason" is **M**, then the attribute "contractTerminationDate" must be equal to the current date. | 72 | Date of the contract termination *[contractTerminationDate]* must be equal to the current date. | contractTerminationDate |
| Date of the contract termination cannot be equal to date of contract start. | 73 | Date of the contract termination *[contractTerminationDate]* cannot be equal to objects *[objectNumber (if there is more than one object, objects must be separated by the semicolon]* contract start date. | objectNumber, contractTerminationDate |
| The contract cannot be terminated for the object if the termination has already been submitted / in progress/ completed / sent. | 74 | The contract cannot be terminated for the object *[objectNumber (if there is more than one object, objects must be separated by the semicolon]* because the termination of the contract has already been submitted. | objectNumber |
| If the attribute "consentSign" is **false**, then the contract termination must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| All objects of the notification must belong to the same contract. | 43 | Change not possible. Different contracts for submitted objects. | objectNumber, consumerCode |
| Date of the contract termination cannot be later than the date of contract end. | 120 | Date of the contract termination [*contractTerminationDate*] cannot be later than objects *[objectNumber (if there is more than one object, objects must be separated by the semicolon]* the date of contract end. | objectNumber, contractTerminationDate |
| If "contractTerminationReason" is **L**, then one of the fields is required "coowner" or "coownerConsentDate". An error occurs when neither is not specified. | 121 | If contract termination reason is "Closure of the object in case of liquidation", then one of the attributes is required "No co-owner" or "Co-owner consent date". | contractTerminationReason, coowner, coownerConsentDate |
| If "contractTerminationReason" is not equal **L**, then the fields must not be specified:<br>• "coowner"<br>• "coownerConsentDate" | 122 | If contract termination reason is not "Closure of the object in case of liquidation", then attributes "No co-owner", "Co-owner consent date" must not be specified. | contractTerminationReason, coowner, coownerConsentDate |
| If "contractTerminationReason" is **L** or **P** or **M**, then it can be filed only one object for one termination of contract request. | 127 | If contract termination reason is "Closure of the object in case of liquidation" or "The termination of the contract between customer and the supplier in cases of sale or termination / end of the lease" or “Termination due to death”, then it can be filed only one object for one termination of contract request. | contractTerminationReason, objectNumber |

| | | | |
|---|---|---|---|
| • If the field "coowner" is **true**, the field "coownerConsentDate" must be specified.<br>• If the field "coowner" is **false**, the field "coownerConsentDate" must be not specified. | 128 | If there is a co-owner, the date of the co-owner's consent must be indicated. If there is not a co-owner, the date of consent is not indicated. | cooner, coownerConsentDate |
| If "coownerConsentDate" is provided, it must not be later than the current date. | 129 | Date of co-owner’s consent *[coownerConsentDate]* must be equal to the current date or earlier than current. | coownerConsentDate |
| If the attribute "generatingobjectType" is **G** (generating consumer) or "generatingObjectType" is **N** (remote generating consumer), then fields must not be specified:<br><br>• "meterNumber"<br>• "scaleIdentifier"<br>• "scaleProduct"<br>• "readingValue"<br>• "readingValueDate" | 152 | If consumer type is generating user or remote generating consumer, then attributes "Meter number", "Scale identifier ", "Scale product", "Reading value", "Reading value date" must not be specified. | generatingObjectType, meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| Reading values can only be filled for valid scales. | 153 | The object *[objectNumber]* meter(s) and/or meter scale(s) does not exist or is no longer valid. Please check provided data. | meterNumber, scaleIdentifier, scaleProduct |
| It is mandatory to fill the scales of all meters in the object at the same time. | 154 | All meters with all scales of the *[objectNumber]* object must be filled. | meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| Meter scale and scale product cannot be repeated for the same object. | 155 | The object *[objectNumber]* meter *[meterNumber]* scale and scale product combination cannot be repeated. | meterNumber, scaleIdentifier, scaleProduct |
| If at least one of the reading statement attributes "meterNumber", "scaleIdentifier", "scaleProduct", "readingValue", "readingValueDate" is specified, then all attributes must be filled in. | 156 | If at least one attribute of the reading statement is specified, then all attributes must be in indicated: "Meter number", "Scale identifier", "Scale product", "Reading value", "Reading value date". | meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| Attribute "readingValueDate" can be equal to the current date or earlier then current.<br><br>For example, | 157 | The reading date *[readingValueDate]* can be equal to the current date or earlier than current. | readingValueDate |

| | | | |
|---|---|---|---|
| If current date is 2023-11-27, then "readingValueDate" can be any date inclusive from 2023-11-27 to X date in the past. | | | |
| The attribute "readingValueDate" must match for all object's scales. | 158 | The reading date must match for all object's scales. | readingValueDate |
| The maximum number of characters in the reading "readingValue" is checked. | 159 | Incorrect number of digits in "Reading value" field. Please check maximum number of digits in scale. | readingValue |
| If "contractTerminationReason" is **N** or "contractTerminationReason" is **L**, then fields must not be specified:<br>• "meterNumber"<br>• "scaleIdentifier"<br>• "scaleProduct"<br>• "readingValue"<br>• "readingValueDate" | 161 | If contract termination reason is "Termination of the contract between customer and the supplier" or "Closure of the object in case of liquidation", then attributes "Meter number", "Scale identifier ", "Scale product", "Reading value", "Reading value date" must not be specified. | contractTerminationReason, meterNumber, scaleIdentifier, scaleProduct, readingValue, readingValueDate |
| The attribute "meterNumber" shall not be repeated in the message for the same object. | 164 | The meter numbers of the object *[objectNumber]* cannot be repeated. | objectNumber, meterNumber |
| Upon successful creation of a contract termination request, the status of the request becomes **P** (Submitted). | | | |

#### 7.6.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| contractTerminationDate | string (date) | Y | Date of contract termination. |
| contractTerminationReason | string | Y | Contract termination reason. Possible meanings:<br>• N - The termination of the contract between customer and the supplier<br>• P - The termination of the contract between customer and the supplier in cases of sale or termination / end of the lease<br>• L – Closure of the object in case of liquidation<br>• M - Termination due to death. |
| consentSign | boolean | Y | Indication of whether the data provided by the contract owner / owner and supplier are correct. Possible meanings:<br>• true<br>• false |
| objects: [] - *Notification objects.* | | | |
| objectNumber | string | Y | Object number. |
| coowner | boolean | N | Indication that there is co-owner. |
| coownerConsentDate | string (date) | N | Date of co-owner’s consent. |
| objects.meterDeclarations: [] - *Object meter declarations.* | | | |
| meterNumber | String (20) | N | Object meter’s number. |
| objects.meterDeclarations.meterReadings: [] - *Object meter readings.* | | | |

| | | | |
|---|---|---|---|
| scaleIdentifier | string | N | Internal scale identifier. Possible meanings:<br><br>• VT<br>• DD<br>• DN<br>• +QsumTS<br>• +WsumT1<br>• +WsumT2<br>• +WsumT3<br>• +WsumT4<br>• -QsumTS<br>• -WsumTS |
| scaleProduct | string | N | Internal scale product. Possible values:<br><br>• D1 – day electricity<br>• D2 – evening electricity<br>• DD – electricity at day tariff<br>• MA- maximum loads<br>• MI – minimum loads<br>• N1 – night electricity<br>• N2 – morning electricity<br>• 8NK – electricity at night, Saturday, Sunday tariff<br>• RG- reactive electricity generated<br>• RV – reactive electricity consumption<br>• SV – Saturdays, Sundays, and holidays electricity<br>• VD – average loads<br>• VK - one time zone |
| readingValue | integer | N | Meter's scale reading value. |
| readingValueDate | string (date) | N | Meter’s scale reading value date. |

#### 7.6.2.2 JSON response structure

The following table describes the JSON structure in the event of a response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Notification identification number (ID). |

### 7.6.3 POST /gateway/notification/{notificationId}/contract/termination/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/contract/termination/cancel |
| **Description** | The method is to cancel the contract termination notification. |
| **Parameter** | URL parameters: *notificationId*. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The request can be canceled:<br><br>• only one time<br>• when the notification state is **P** (Submitted)<br>• when the cancellation deadline has not passed (Initial value - 1 hour). | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation of the owner / owner and supplier change request, the status of the request becomes **A** (Cancelled). | | | |

#### 7.6.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId (*path*) | integer | Y | The id of the notification to be canceled. |

## 7.7 Notification contract object supply state controller

### 7.7.1 POST /gateway/notification/v2/contract/object/supply-state/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/contract/v2/object/supply-state/list |
| **Description** | The method is to obtain a list of object’s disconnection / connection. |
| **Parameter** | URL parameters: first, count, sortKey, sortOrder. |

| | |
|---|---|
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "notificationId": integer, "personCode": "string", "consumerCode": "string", "objectNumber": "string", "objectAddressSearch": "string", "changeType": [ "string" ], "latestStatuses": [ "string" ], "submittedDateFrom": "atring", "submittedDateTo": "string", "contractType": "string", "contractModel": "string", "userNameSearch": "string" } |
| **JSON response** | [ { "notificationId": integer, "changeType": "string", "notes": "string", "submittedDate": "string", "latestStatus": "string", "errorType": "string", "userName": "string", "currentObjectData": { "objectNumber": "string", "objectAddress": "string", "personName": "string", "personSurname": "string", "personCode": "string", |

| | |
|---|---|
| | <pre>"consumerCode": "string",<br>"contractType": "string",<br>"contractModel": "string",<br>"objectSupplyState": "string",<br>"objectSupplyStateValidFrom": "string",<br>"objectSupplyStateValidTo": "string",<br>"sociallyVulnerable": boolean<br>},<br>"supplyStateNotificationStatus": [<br>{<br>"status": "string",<br>"statusDate": "string"<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom, submittedDateTo, contractTerminationDateFrom, contractTerminationDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |

| | | | |
|---|---|---|---|
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.7.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the notification (ID), which must be the first in the return list (starting from 0). The default value is 0. |
| count (*query*) | integer | N | The number of notification (ID) rows in the return list. Optional. The default value is 30. |
| sortKey (*query*) | string | N | The attribute to sort by. Default meaning: notificationId. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC.<br>• By default, the list should be sorted by the "notificationId" - the latest request records should be displayed at the top of the list.<br>• Able to sort list entries by all list fields except status history. |

#### 7.7.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | N | Disconnection / connection notification identification (ID). |
| personCode | string | N | Contract owner / tenant person / company code. |
| consumerCode | string | N | Contract owner / tenant consumer code. |
| objectNumber | string | N | Object number. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectAddressSearch | string | N | Object address. The search by the fragment. |
| changeType | list of strings | N | Disconnection / connection change type. Possible meanings:<br>• D – Disconnection at the request of the consumer<br>• DD – Disconnection due to the debt<br>• C – Connection of the consumer<br>• CD – Connection of the consumer after payment of the debt |
| latestStatuses | list of strings | N | Notification newest status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K - Error |
| submittedDateFrom | string (dateTime) | N | The submission date from of the notification. |
| submittedDateTo | string (dateTime) | N | The summation date to of the notification. |
| contractType | string | N | Contract type of the current object. Possible meanings:<br>• SBTS - Household customer<br>• SKMS - Commercial customer. |
| contractModel | string | N | Contract model of the current object. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| userNameSearch | string | N | The user who created a notification. Search by the fragment. |

#### 7.7.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Disconnection / connection notification identification (ID). |
| changeType | string | Y | Disconnection/connection change type. Possible meanings:<br>• D – Disconnection at the request of the consumer<br>• DD – Disconnection due to the debt<br>• C – Connection of the consumer<br>• CD – Connection of the consumer after payment of the debt |
| notes | string | N | Notification notes. |
| submittedDate | string (dateTime) | Y | The submission date of the notification. |
| latestStatus | string | Y | Notification newest status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV – Completed<br>• K - Error |
| errorType | string | N | Notification error type if status is **K** (Error). Possible meanings:<br>▪ KL - Incorrect message<br>▪ OT – The object has no accounting point<br>▪ BA – Supply state cannot be changed because the data of the old contract does not match<br>▪ KD - Other works completed<br>▪ AD - Unable to perform user on/off operations<br>▪ NB - The facility could not be accessed<br>▪ KDABLI - Other works completed: Closure of the object in case of liquidation<br>▪ KDAKTS - Other works completed: Registering the act (change of the meter)<br>▪ KDAPPA - Other works completed: Accounting (meter) verification<br>▪ KDAPPATVP - Other works completed: Accounting verification at the customer ‘s request |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | ▪ KDAPKTPT - Other works completed: Accounting device (meter) change by a schedule<br>▪ KDAPKVS - Other works completed: Replacement of the accounting device (meter) instead of a broken one<br>▪ KDAPREK - Other works completed: Accounting reconstruction<br>▪ KDSKRODNUR - Other works completed: Recording of meter readings<br>▪ KDSSI - Other works completed: SMART meter installation<br>▪ TCHK - Due to technical obstacles<br>▪ SKOLIROD - Proof/notice of debt settlement/debt distribution is received<br>▪ NATS - Not disconnected because canceled<br>▪ NPTKSKAI - Didn't get to the electricity meter<br>▪ NTKORAS - Bad weather conditions |
| userName | string | N | The user who created a notification. |
| currentObjectData: {} - *Current object information.* | | | |
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Object address. |
| personName | string | Y | Contract owner / tenant / company name. |
| personSurname | string | N | Contract owner / tenant surname. |
| personCode | string | N | Person / tenant / company code.<br>If the subject is an individual than person code must be returned encrypted: [********] [the last 3 symbols of the person code]. |
| consumerCode | string | Y | Contract owner / tenant consumer code. |
| contractType | string | Y | Contract type of the current object. Possible meanings:<br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| contractModel | string | Y | Contract model of the current object. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectSupplyState | string | N | Contract object's electricity supply state. Possible meanings:<br>• T - Supply<br>• P – Disconnected on request<br>• A - Disconnected under sanction<br>• R – Limited by sanction |
| objectSupplyStateValidFrom | string (date) | N | The object's electricity supply status is valid from. |
| objectSupplyStateValidTo | string (date) | N | The object's electricity supply status is valid to. |
| sociallyVulnerable | boolean | Y | An indication of whether the owner/tenant of the object is socially vulnerable. |
| supplyStateNotificationStatus: [] - *Supply state notification statuses.* | | | |
| status | string | Y | Notification all status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV – Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Date of the status. |

### 7.7.2 POST /gateway/notification/contract/object/supply-state

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/contract/object/supply-state |
| **Description** | The method is for independent supplier to transfer object’s disconnection/connection (supply state change) to DH. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party’s authentication key, the involved party ID is used to select the data. |

| | |
|---|---|
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"changeType": "string",<br>"notes": "string",<br>"consentSign": boolean,<br>"objectNumber": "string"<br>} |
| **JSON response** | {<br>"notificationId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| * Date type fields can be filled with time where it should not be according to the rules below. The time will be clipped automatically, and the date will be stored without time. | | | |
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| Must be specified valid object. | 1 | Change not possible. The object*: [objectNumber]* does not found in the system. | objectNumber |
| The object must belong to a valid supplier contract that provides the notification. | 2 | Change not possible. The object: *[objectNumber]* does not belong to a valid supplier contract. | objectNumber |
| If the object does not have a valid electricity supply status for the current date, the change is not possible. | 3 | Change not possible. The object *[objectNumber]* does not have a valid electricity energy supply status. | objectNumber |
| The attribute "changeType" must be is **D** or **DD** if the current electricity energy supply state of the object is T (Supply). | 4 | Change not possible. Object: *[objectNumber]* current electricity energy supply state is "Supply". Possible | objectNumber, changeType |

| | | | |
|---|---|---|---|
| | | change type: "Disconnection at the request of the consumer" or "Disconnection due to the debt". | |
| The attribute "changeType" must be C if the current electricity energy supply state of the object is **P** (Disconnected) on request. | 5 | Change not possible. Object: *[objectNumber]* current electricity energy supply state is "Disconnected on request". Possible change type: "Connection of the consumer". | objectNumber, changeType |
| The attribute "changeType" must be CD if the current electricity energy supply state of the object is **A** (Disconnected under sanction) or **R** (Limited by sanction). | 6 | Change not possible. Object: *[objectNumber]* current electricity energy supply state is "Disconnected under sanction" or "Limited by sanction". Possible change type: "Connection of the consumer after payment of the debt". | objectNumber, changeType |
| When submitting a new notification, it must be checked whether the system already has a notification with the status **In Progress** or **Sent** or **Submitted** and whose "objectNumber", "changeType" matches the "objectNumber", "changeType" of the newly submitted notification. If such a notification is found, the change is not possible. | 7 | Change not possible. The notification has already been submitted to *[objectNumber]*. | objectNumber, changeType |
| If the attribute "consentSign" is false, then the contract termination must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| Upon successful creation of a supply state notification, the status of the notification becomes Submitted. | | | |

#### 7.7.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| changeType | list of strings | Y | Disconnection/connection change type. Possible meanings:<br><br>• D – Disconnection at the request of the consumer<br>• DD – Disconnection due to the debt<br>• C – Connection of the consumer<br>• CD – Connection of the consumer after payment of the debt<br><br>More than one exchange type can be selected. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notes | string (4000) | N | Notification notes. |
| consentSign | boolean | Y | The consent sign of the notification. Possible meanings:<br>• true<br>• false |
| objectNumber | string (20) | Y | Object number. |

#### 7.7.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Disconnection / connection notification identification (ID). |

### 7.7.3 POST /gateway/notification/{notificationId}/contract/object/supply-state/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/contract/object/supply-state/cancel |
| **Description** | The method is to cancel the disconnection/connection notification. |
| **Parameter** | URL parameters: *notificationId.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The request can be canceled:<br>• only one time<br>• when the notification state is **P** (Submitted)<br>• when the cancellation deadline has not passed (initial value - 1 hour) | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation, the status of the notification becomes **A** (Canceled). | | | |

#### 7.7.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId (*path*) | integer | Y | The id of the notification to be canceled. |

## 7.8 Notification cancellation controller

### 7.8.1 POST /gateway/notification/v2/cancellation/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v2/cancellation/list |
| **Description** | The method is designed to obtain notification cancelation request. |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "notificationId": integer, "cancelledNotificationId": integer, "cancelledNotificationType": [ "string" ], "objectNumber": "string", "objectAddressSearch": "string", "submittedDateFrom": "string", "submittedDateTo": "string", "latestStatuses": [ "string" ], "userNameSearch": "string" } |
| **JSON response** | [ { "notificationId": integer, "cancelledNotificationId": integer, "cancelledNotificationType": "string", "cancelledFullNotification": "boolean", "userName": "string", "submittedDate": "string", "latestStatus": "string", "errorType": "string", |

| | |
|---|---|
| | <pre>"objects": [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string"<br>}<br>],<br>"notificationStatus": [<br>{<br>"status": "string",<br>"statusDate": "string"<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom, submittedDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.8.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index (starting from 0) of the notification that must be presented first in the return list. The default value is 0. |
| count (*query*) | integer | N | Number of notifications in the return list. Optional. The default value is 30. |
| sortKey (*query*) | string | N | The attribute to sort by. By default, the list must be sorted by the column notificationId. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.8.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | N | Request identification number (ID). Search is possible by full value. |
| cancelledNotificationId | Integer | N | Identifier of the cancelation request. Search is possible by full value. |
| cancelledNotificationType | list of strings | N | Cancelation request type. Possible values:<br><br>• STK - owner and supplier change<br>• NTK - supplier change<br>• SK - owner change<br>• SN - termination of contract<br>• KT - change of contacts<br>• TPK - Change of tariff plans<br>• AP - Disconnect / connect<br><br>For now, it is possible submit only type NTK, AP, SK and STK. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string | N | Object number. Search is possible by full value. |
| objectAddressSearch | string | N | Object address. Search by the fragment. |
| submittedDateFrom | string (dateTime) | N | Date of notification submitted date from. |
| submittedDateTo | string (dateTime) | N | Date of notification submitted date to. |
| latestStatuses | list of strings | N | Message status. The possible values are:<br>• P – Submitted<br>• A – Cancelled<br>• I – Sent<br>• V - In progress<br>• IV - Completed<br>• K - Error |
| userNameSearch | string | N | Username. Search by fragment. |

#### 7.8.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Request identification number (ID). |
| cancelledNotificationId | integer | y | Identifier of the cancelation request. |
| cancelledNotificationType | string | Y | Cancelation request type. Possible values are:<br>• STK - owner and supplier change<br>• NTK - supplier change<br>• SK - owner change<br>• SN - termination of contract |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • KT - change of contacts<br>• TPK - Change of tariff plans<br>• AP - Disconnect / connect |
| cancelledFullNotification | boolean | Y | Attribute indicating whether all objects are canceled with cancelation request. If all – then response “YES”, if no – the response “No”. |
| userName | string (240) | N | User, that created entry |
| submittedDate | string (dateTime) | Y | Notification submitted date. |
| latestStatus | string | Y | Latest status of message. The possible values are:<br><br>• P – Submitted<br>• A – Cancelled<br>• I – Sent<br>• V - In progress<br>• IV – Completed<br>• K - Error |
| errorType | string (10) | N | Response in case of error. The value is returned only if the status is **K** (Error). Possible meanings are:<br><br>• KL - Incorrect message<br>• AT - Cancellation of a supplier is not possible because the object has already entered NT<br>• AN - Supplier cancellation is not possible because the object in the NT does not match the Billing data<br>• AS - Cancellation of a supplier is not possible because the details of the old contract do not match<br>• TA – Outstanding due to cancellation submitted<br>• AB – Cancellation is not possible, work in progress<br>• SP - The contract has already been rewritten |
| objects: [] - *Notification objects.* | | | |
| objectNumber | string | N | Object number. |
| objectAddress | string | N | Object address. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationStatus: [] - *Notification statuses.* | | | |
| status | string | Y | Message status. The possible values are:<br>• P – Submitted<br>• A – Cancelled<br>• I – Sent<br>• V - In progress<br>• IV – Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Status date. |

### 7.8.2 POST /gateway/notification/cancellation

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/cancellation |
| **Description** | The method is designed to transfer cancelation request to DH. |
| **Parameter** | URL parameters: *notificationId.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"cancelledNotificationId": integer,<br>"cancelledNotificationType": "string",<br>"consentSign": boolean,<br>"objectNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | {<br>"notificationId": integer<br>} |

| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | |
| Attributes "objectNumber", "cancelledNotificationId", "cancelledNotificationType" are mandatory. | | One or more request parameters are required. | objectNumber |
| The meaning of the "objectNumber" notification cannot be repeated. | 7 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is repeating | objectNumber |
| The Supplier can only cancel requests it has made. | 601 | The request *[cancelledNotificationId]* does not belong to the supplier, or the canceled request type is incorrect. | objectNumber |
| All the objects of the submitted request must belong to the objects of the canceled request. | 602 | The object: *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* does not belong to the cancelled notification *[cancelledNotificationId]*. | objectNumber, cancelledNotificationId |
| If the attribute "cancelledNotificationType" is **NTK** then:<br>▪ The latest status of the cancelled request (cancelledNotificationId) must be **IV** (Completed) AND whose contract has not started yet. | 603 | If the request type "NTK - change of supplier", the cancellation is only possible for requests with status Completed and whose contract has not started yet. | cancelledNotificationId |
| If the attribute "cancelledNotificationType" is **NTK**, then:<br>▪ The cancellation can be made 1 day before the end of the deadline for changing the Supplier. | 604 | If the cancellation request type is "NTK - change of supplier", cancellation is possible [1] day(s) before the start of the supplier's contract. | cancelledNotificationType, cancelledNotificationId |
| Only one non-canceled/non-erroneous cancellation request is possible for the same "objectNumber", "cancelledNotificationId", "cancelledNotificationType", "independentSupplierId". | 605 | The cancellation request for object *[objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is already submitted to the system | objectNumber, cancelledNotificationId, cancelledNotificationType, independentSupplierId |

| | | | |
|---|---|---|---|
| If the attribute "consentSign" is **false**, then the cancellation of notification must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| When submitting a new cancelation notification, the system checks for the presence of cancelation notification with a status Completed. | 606 | Due to possible duplication of information, such a notification to object *[objectNumber]* is not possible. Please try after 30 minutes. | cancelledNotificationId, object number |
| It is not possible to cancel if another supplier has already canceled the object contract or independent supplier object valid from date is not equal to contract change notification object's contract start date. | 607 | A cancellation request for *object [objectNumber (if there is more than one object, objects must be separated by the semicolon)]* is not possible, another supplier has canceled the contract for the object or the object contract is canceled in the operator's system. | objectNumber, cancelledNotificationId, cancelledNotificationType |
| Supply disconnection due to debt cannot be canceled if the facility is equipped with an MDM (new SMART) meter and the request to submitted between (**hour from specified in the configuration**) until (**hour to specified in the configuration**) hours. | 608 | Supply disconnection due to debt requests cannot be canceled between *[hour from specified in the configuration]* until *[hour to specified in the configuration]* hours. | cancelledNotificationType |
| If the attribute "cancelledNotificationType" is **AP,** then:<br>• The latest status of the cancelled request "cancelledNotificationId" must be **V** (In progress). | 609 | If the cancelled request type is "AP - disconnection due to debt", only in progress requests can be cancelled. | cancelledNotificationId |
| If the attribute"cancelledNotificationType" is **STK** or **SK**, then:<br>• it is necessary to specify all objects of the cancellation request. | 611 | If the request type "STK - change of owner and supplier" or "SK - change of owner" then it is necessary to specify all objects of the cancellation request. | objektNumber, cancelledNotificationId, cancelledNotificationType |
| If the attribute "cancelledNotificationType" is **SK** or **STK** then:<br>• The latest status of the cancelled request "cancelledNotificationId" must be **V** (In progress). | 612 | If the request type "STK - change of owner and supplier" or "SK - change of owner", the cancellation is only possible for requests with status In progress. | cancelledNotificationId, cancelledNotificationType |
| With one cancellation request, it can cancel:<br>• a single request, specifying the request and all its objects to be canceled, or not all objects of a single request, specifying the request to be canceled and its objects to be canceled in that request. | | | |
| Upon successful creation of a cancellation request, the status of the request becomes **P** (Submitted). | | | |

#### 7.8.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| cancelledNotificationId | integer | Y | Identification (ID) of the cancelation request. |
| cancelledNotificationType | string | Y | Cancelation request type. Possible meanings are:<br><br>• STK – owner and supplier change<br>• NTK – supplier change<br>• SK – owner change<br>• SN – termination of contract<br>• KT – change of contacts<br>• TPK – Change of tariff plans<br>• AP – Disconnect / connect<br><br>For now, it is possible submit only type NTK, AP, SK and STK. |
| consentSign | boolean | Y | An indication of whether the cancellation data provided is correct. |
| objectNumbers | string | Y | The object number for which the request of object cancellation is performed. |

#### 7.8.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | The id of the notification to be canceled. |

### 7.8.3 POST /gateway/notification/{notificationId}/cancellation/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/cancellation/cancel |
| **Description** | The method is designed to cancel cancelation request |
| **Parameter** | URL parameters: *notificationId.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | |
| The request can be canceled:<br><br>• only one time.<br>• when the notification state is **P** (Submitted).<br>• when the cancellation deadline has not passed (initial value - 1 hour). | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation of the cancellation request, the status of the request becomes **A** (Cancelled). | | | |

#### 7.8.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId (*path*) | integer | Y | The id of the notification to be canceled. |

## 7.9 Notification contract tariff plan controller

### 7.9.1 POST /gateway/notification/v3/contract/tariff-plan/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v3/contract/tariff-plan/list |
| **Description** | The method is designed to obtain an information of tariff change. |

| | |
|---|---|
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "notificationId": integer, "personCode": "string", "consumerCode": "string", "objectNumber": "string", "objectAddressSearch": "string", "latestStatuses": [ "string" ], "submittedDateFrom": "string", "tariffPlanChangeType": "string", "submittedDateTo": "string", "newTariffPlanSearch": "string", "newTimeZone": "string", "newAccountingScheme": "string" "newPayoffMethod": "string", "contractType": "string", "contractModel": "string", "userNameSearch": "string" } |
| **JSON response** | [ { "notificationId": integer, "latestStatus": "string", "errorType": "string", "submittedDate": "string", "userName": "string", "objects": [ { "personName": "string", "personSurname": "string", "personCode": "string", "consumerCode": "string", "objectNumber": "string", "objectAddress": "string", "contractType": "string", |

```
            "contractModel": "string",
            "accountingType": "string",
            "tariffPlan": "string",
            "timeZone": "string",
            "tariffPlanChangeType": "string",
            "payoffMethod": "string",
            "newTariffPlan": "string",
            "newTimeZone": "string",
            "usedPowerPlants": [
               {
                  "powerPlatObjectNumber": "string",
                  "generatingobjectPower": "string",
                  "powerPlantType": "string",
                  "newAccountingScheme": "string",
                  "accountingScheme": "string",
                  "newPayoffMethod": "string",
                  "payoffMethod": "string"
               }
            ]
         }
      ],
      "status": [
         {
            "status": "string",
            "statusDate": "string"
         }
      ]
   }
]
```


| | |
|---|---|
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom, submittedDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.9.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index of the notification (ID), which must be the first in the return list (starting from 0). The default value is 0. |
| count (*query*) | integer | N | The number of notification (ID) rows in the return list. Optional. The default value is 30. |
| sortKey (query) | string | N | The attribute to sort by. By default, the list must be sorted by the column notificationId. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.9.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | N | Tariff plans change notification identification number (ID). |
| personCode | string (20) | N | Contract owner / tenant person / company code. |
| consumerCode | string (20) | N | Contract owner / tenant consumer code. |
| objectNumber | string (20) | N | Object number. |
| objectAddressSearch | string (4000) | N | Object address. The search by the fragment. |
| latestStatuses | list of strings | N | Notification newest status. Possible values:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K - Error |
| submittedDateFrom | string (dateTime) | N | The submission date from of the notification. |
| submittedDateTo | string (dateTime) | N | The summation date to of the notification. |
| contractType | string | N | Contract type of the current object. Possible values:<br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| contractModel | string | N | Contract model of the current object. Possible values:<br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| tariffPlanChangeType | string (enum) | N | Tariff plan change type for the object. Possible values:<br>• EXPRESS |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • STANDARD |
| newTariffPlanSearch | string (200) | N | • Object’s full name of the tariff plan.<br>• Search by the fragment. |
| newTimeZone | string | N | Current time zone of the object. Possible values:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| newAccountingScheme | string | N | New accounting scheme for the generating consumer of the power plant used by the object. Possible values:<br><br>• NET_BILLING<br>• NET_METERING |
| newPayoffMethod | string | N | New payoff method for the generating consumer of the power plant used by the object. Possible values:<br><br>• E - kWh - Recovered electricity energy<br>• G - kW - The power plant's permissible power<br>• P - % - Settlement percentage<br>• S – kWh – PP recovered electricity |
| userNameSearch | string (240) | N | The user who created a notification. Search by the fragment. |

#### 7.9.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Tariff plans change notification identification (ID). |
| latestStatus | string | Y | Notification newest status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K - Error |
| errorType | string | N | Notification error type if status is K (Error). |
| submittedDate | string (dateTime) | Y | The submission date of the notification. |
| userName | string | N | The user who initiates the tariff plan change notification. |
| objects: [] - *Notification objects.* | | | |
| personName | string | Y | Contract owner / tenant / company name. |
| personSurname | string | N | Contract owner / tenant surname. |
| personCode | string | N | Person / tenant / company code.<br>If the subject is an individual than person code must be returned encrypted: [********] [the last 3 symbols of the person code]. |
| consumerCode | string | Y | Contract owner / tenant consumer code. |
| objectNumber | string | Y | Object number. |
| objectAddress | string | Y | Object address. |
| contractType | string | Y | Contract type of the current object. Possible meanings:<br>• SBTS - Household customer |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • SKMS - Commercial customer |
| contractModel | string | y | Contract model of the current object. Possible meanings:<br><br>• BSS - General contract bills<br>• 2S2S - Two contracts – Two bills |
| accountingType | string | Y | Object accounting type at the time of notification submission. Possible values:<br><br>• NET_METERING – accumulates kwh (**explanation**: The object has power plant (-s) in use, the accounting scheme of which is net metering)<br>• NET_BILLING – accumulates Eur (**explanation:** The object has power plant (-s) in use, the accounting scheme of which is net metering)<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur (**explanation:** The object uses power plants with net metering and net billing accounting schemes)<br>• POWER_PLANT - sells kwh (**explanation:** The object is power plant and does not have power plants in use)<br>• CONSUMER - only consuming (**explanation:** The object is only consuming)<br>• ENERGY_SHARER – sharing kw (**explanation:** The object is a power plant, but the energy it generates is distributed to other objects) |
| tariffPlan | string | Y | The object tariff plan. The tariff plan was saved as current during the notification submission. |
| timeZone | string (4) | Y | Time zone of the object which was saved as current. Possible values:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| tariffPlanChangeType | string | N | Tariff plan change type for the object. Possible values:<br><br>• EXPRESS<br>• STANDARD |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| newTariffPlan | string | Y | The new tariff plan of the object. |
| newTimeZone | string | Y | The new time zone of the object. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| objects.usedPowerPlants: [] - *Data of used power plants of object.* | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| generatingObjectType | string | N | Type of generating consumer of the used power plant. Possible meanings:<br><br>• G - Generating consumer<br>• N - Distant generating consumer |
| powerPlantType | string | N | Type of used power plant. Possible meanings:<br><br>• A – Waste fuel<br>• B – Biomass<br>• H – Hydroelectric<br>• K – Other<br>• S – Solar<br>• T – TEC.<br>• V – Wind<br>• P – Storage device<br>• I – Fossil<br>• D – Biogas<br>• R – Hybrid generation |
| accountingScheme | string | N | Current generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| newAccountingScheme | string | N | New generating consumer accounting scheme. Possible meanings:<br><br>• NET_BILLING<br>• NET_METERING |
| payoffMethod | string | N | Current generating consumer payoff method. Possible meanings:<br><br>• E - kWh - Recovered electricity energy<br>• G - kW - The power plant's permissible power<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| newPayoffMethod | string | N | New generating consumer payoff method. Possible meanings:<br><br>• E - kWh - Recovered electricity energy<br>• G - kW - The power plant's permissible power<br>• P - % - Payment percentage<br>• S – kWh – PP recovered electricity |
| status: [] - N*otification statuses.* | | | |
| status | string | required | Notification all status. Possible meanings:<br><br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Date of the status. |

### 7.9.2 POST /gateway/notification/v2/contract/tariff-plan

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v2/contract/tariff-plan |
| **Description** | The method is for independent supplier to transfer the tariff plan change to DH. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "consentSign": boolean, "objects": [ { "objectNumber": "string", "newTariffPlan": "string", "newTimeZone": "string", "usedPowerPlants": [ { "powerPlantObjectNumber": "string", "newAccountingScheme": "string", "newPayoffMethod": "string" } ] } ] } |
| **JSON response** | { "notificationId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| Submitted object cannot have the same / matching meters numbers. | 301 | Objects: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* have the same / matching meter number. | objectNumber |
| The meaning of the object number notification cannot be repeated. | 7 | The object: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* is repeating. | objectNumber |
| A valid object must be specified. | 8 | The object**:** *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* is not valid. | objectNumber |
| The object must belong to a valid supplier contract that provides the notification. | 9 | The object**:** *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* does not belong to a valid supplier contract. | objectNumber |
| All objects of the notification must belong to the same contract. | 43 | Change not possible. Different contracts for submitted objects. | objectNumber |
| It is possible to change the tariff plan if the supply status of the object is T - Supplied. Otherwise, the change cannot be made. | 320 | Change not possible. The objects: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* supply status is not "T - Supplied". | objectNumber |
| If the object contract is not signed in the ESO part from supply to distribution, then changing the tariff plan is not possible until the contract is rewritten. | 323 | The object requires a contract rewrite, so changing the tariff plan / time zone/ accounting scheme / payoff method will be possible after the contract rewrite process has been completed in ESO. | objectNumber |

| | | | |
|---|---|---|---|
| It is possible to change the tariff plan and / or time zone of the object, if the possible date of changing the tariff plan is earlier than or equal to the current date.<br><br>The rule should only be applied if the specified tariff plan and / or time zone is not the same as the existing one.<br><br>**Important:** This validation rule is expected no longer be applicable from 1 January 2027 (the effective date is subject to change). From that date, the following validation logic is expected to apply:<br><br>• If the object's contract type is `SBTS` and the object is eligible for an express tariff plan change, the request is registered to take effect on the first day of the next month. If the request is submitted on the last day of the month, it is registered to take effect on the first day of the month after next.<br>• If the object's contract type is `SBTS` and the object is not eligible for an express tariff plan change:<br>  ○ When changing the time zone (either separately or together with the tariff plan), **rule 346** is applied;<br>  ○ When changing only the tariff plan, the request is registered to take effect on the first day of the next month.<br>• If the object's contract type is `SKMS`, **rule 346** is applied. | 302 | Tariff plan changes are not possible. The object: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* possible tariff plan change date is later than the current date. | objectNumber, tariffPlanChangeDate |
| Must be specified valid used power plants of the object. | 324 | Used power plant *{*`usedPowerPlants.`*powerPlantObjectNumber}* of the object *{*`objectNumber`*}* is not valid or not exist. | usedPowerPlants.powerPlantObjectNumber |
| The number of the power plant used for the same object cannot be repeated. | 325 | The numbers of the used power plants is repeating for object *{*`objectNumber`*}*. | usedPowerPlants.powerPlantObjectNumber |

| | | | |
|---|---|---|---|
| If at least one of the used power plants attributes "usedPowerPlants.powerPlantObjectNumber", "usedPowerPlants.accountingScheme", "usedPowerPlants.payoffMethod" is specified, then attributes must be indicated:<br><br>• "The power plant number"<br>• "Generating consumer accounting scheme" | 326 | If at least one attribute of the used power plant is specified, it is mandatory to specify attributes: "The power plant number", "Generating consumer accounting scheme". | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |
| If attribute "usedPowerPlants.accountingScheme" is filled with the value **NET_METERING**, then the attribute "usedPowerPlants.payoffMethod" is mandatory. | 327 | If generating consumer accounting scheme of used power plant is filled "Net metering", then payoff method must be included. | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme usedPowerPlants.payoffMethod |
| Now attribute's "usedPowerPlants.accountingScheme" possible values is **NET_METERING**. If value is specified "NET_BILLING", then error message be displayed. | 328 | The selection of the generating consumer accounting scheme "Net billing" is not possible. | usedPowerPlants.accountingScheme |
| The attributes "usedPowerPlants.accountingScheme" and "usedPowerPlants.payoffMethod" cannot be filled if used power plant consumer type is not generating consumer ("usedPowerPlants.generatingObjectType" is not **G**) or remote generating consumer ("usedPowerPlants.generatingObjectType" is not **N**) and "contractType" is not **SBTS.** | 329 | Generating consumer accounting scheme and payoff method of used power plant can be filled, if consumer type is GV or NGV and contract type - SBTS. | usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod, usedPowerPlants.generatinObjectType |
| If the attribute **"contractType"** is **SBTS** and used power plant of the object is a generating user ("usedPowerPlants.generatingObjectType" is **G**) or used power plant of the object is a remote generating user ("usedPowerPlants.generatingObjectType" is **N**) and the attribute "usedPowerPlants.accountingScheme" (not null and does not match the current one) is specified, the accounting scheme can be changed if the date of the change in the GV accounting scheme is earlier or equal to the current date. | 330 | Change not possible. Used power plant *{*`usedPowerPlants.`*powerPlantObjectNumber}* of the object: *{objectNumber}* possible generating capacity user accounting scheme change *{*`usedPowerPlantObjects.`*accountingSchemeChangeDate}* date is later than the current date. | changeType, contractType, usedPowerPlants.accountingScheme |
| If the attribute "contractType" is **SBTS** and used power plant of the object is a generating user ("usedPowerPlants.generatingObjectType" is **G**) or used | 331 | Change not possible. Used power plant *{*`usedPowerPlants.powerPlantObjectNumber`*}* of the object: *{*`objectNumber`*}* possible generating capacity | changeType, contractType, usedPowerPlants.payoffMethod |

| | | | |
|---|---|---|---|
| power plant of the object is a remote generating user ("usedPowerPlants.generatingObjectType" is **N**) and the attribute "usedPowerPlants.payoffMethod" (not null and does not match the current one) is specified, the payoff method can be changed if the date of the change in the GV payoff method is earlier or equal to the current date. | | user payoff method change *{usedPowerPlantObjects.payoffMethod}* date is later than the current date. | |
| If the attribute "contractType" is **SBTS** and the accounting scheme and / or payoff method of used power plant is changing, then the accounting schemes and payoff methods of used power plants must match.<br><br>For example,<br><br>• The object **X** has two used power plants with different accounting schemes:<br>• Used power plant **Y** has accounting scheme **NET_BILLING** and payoff method -.<br>• Used power plant **Y** has accounting scheme **NET_METERING** and payoff method **S** (kWh – PP recovered electricity").<br><br>If changing the accounting scheme (from **NET_BILLING** to **NET_METERING**) and the payoff method for the used power plant **Y**, the selected payoff method must match the current payoff method of the used power plant **Z**. If the chosen payoff method does not match → an error message is displayed. | 332 | Change not possible. The accounting schemes and payoff methods of the used power plants of the object: *{objectNumber}* must match. | changeType, contractType, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |
| If the object contract type is **SBTS**, then the mandatory attribute is "newTariffPlan". | 303 | For the object: *{objectNumber}* it is mandatory to indicate the tariff plan. | newTariffPlan |
| If the object contract type is **SBTS**, must be specified valid "newTariffPlan". | 304 | There is no tariff plan *{newTariffPlan}*. | newTariffPlan |
| When changing the tariff plan of the object(s), at least one required field must be changed.<br><br>• **In case of SBTS:** newTariffPlan, newTimeZone, newAccountingScheme of used power plant, newPayoffMethod of used power plant.<br>• **In case of SKMS:** newTimeZone. | 306 | The object: *{objectNumber}* when changing a tariff plan must be changed at least one required field. | newTariffPlan,<br>newTimeZone,<br>newPayoffMethod |

| | | | |
|---|---|---|---|
| If the object contract type is **SBTS** and the current tariff plan of object is **Vidutinė įtampa**, then the new "newTariffPlan" must **be Vidutinė įtampa**. | 307 | The object: *{objectNumber}* current tariff plan is "Vidutinė įtampa", then the new tariff plan must be "Vidutinė įtampa". | newTariffPlan |
| If the contractType is **SKMS** the attribute "newTariffPlan" must not be specified. The current tariff plan will be assigned to the object. | 309 | Contract type of the object: *{objectNumber}* is SKMS, the new tariff plan cannot be specified. | newTariffPlan |
| If the object contractType is **SKMS** and "permitablePowerConsumption" <= 30 kw, the attribute's "newTimeZone" possible values one of the: 1 or 2. | 312 | If the contract type SKMS of the object: *{objectNumber}* and PermitablePowerConsumption <= 30 kw, then the new time zone must be "One" or "Two". | newTimeZone |
| If the object contractType is **SKMS** and "permitablePowerConsumption" > 30 kw, the attribute's "newTimeZone" possible values is one of the: VR or DR. | 313 | If the contract type SKMS of the object: *{objectNumber}* and PermitablePowerConsumption > 30 kw, then the new time zone must be "One with reactive" or "Differentiated with reactive ones". | newTimeZone |
| It must be checked whether the permissible power for use is specified for the object. | 314 | Failed to set usable power for the object *{objectNumber}*. | objectNumber |
| For objects with contract type `SBTS` where `expressTariffPlanChangeAvailable` is `false`, and for objects with contract type `SKMS`, a time zone change is allowed only if the earliest available tariff plan change date is not later than the request submission date.<br><br>**Validation condition:** Earliest available tariff plan change date ≤ request submission date.<br><br>**Examples:**<br><br>• Request date: 2026-08-27, tariff plan change date: 2026-08-01 → Allowed<br>• Request date: 2026-08-27, tariff plan change date: 2026-08-27 → Allowed<br>• Request date: 2026-08-27, tariff plan change date: 2026-09-01 → Not allowed<br><br>**Important:** This validation rule is expected apply from 1 January 2027 (the effective date is subject to change). | 346 | Time zone change is not allowed. The time zone for object *{objectNumber}* can be changed starting from *{tariffPlanChangeDate}*. | newTimeZone |

| | | | |
|---|---|---|---|
| If the attribute "consentSign" is **false**, then the tariff plan change must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| If the object contract type is **SBTS**, then the meaning of the "newTariffPlan" attribute must be one of the:<br><br>• Namai<br>• Standartinis<br>• Efektyvus<br>• Vidutinė įtampa | 333 | The object: *{objectNumber}* tariff plan must be "Namai" / "Standartinis" / "Efektyvus" / "Vidutinė įtampa". | newTariffPlan |
| If the object contract type is **SBTS**, then object "tariffPlan" value **Vidutinė įtampa** cannot be specified, if current "tariffPlan" of object is not "Vidutinė įtampa". | 334 | The object: *{objectNumber}* current tariff plan is not "Vidutinė įtampa", then the new tariff plan can be "Namai" / "Standartinis" / "Efektyvus". | newTariffPlan |
| If the object contract type is **SBTS** and attribute "newTariffPlan" is **Namai** or **Vidutinė įtampa**, then the attribute "newTimeZone" meaning must be 1 or 2. | 336 | If the object *{objectNumber}* the contract type is SBTS and the new tariff plan is "Namai" or "Vidutinė įtampa", then the new time zone must be "One" or "Two". | newTimeZone, newTariffPlan |
| If the object contract type is **SBTS** and attribute "newTariffPlan" is **Standartinis** or **Efektyvus**, then the attribute "newTimeZone" meaning must be 1 or 2 or 4 (Smart). | 338 | If the object *{objectNumber}* the contract type is SBTS and the new tariff plan is "Standartinis" or "Efektyvus", then the new time zone must be "One" or "Two" or "Four (Smart)". | newTimeZone, newTariffPlan |
| The system must be checked for the presence of tariff plan change notification with a status not Canceled and not Error. | 339 | Due to possible duplication of information, such a notification to object *{objectNumber}* is not possible. Please try after 30 minutes. | objectNumber |
| Upon successful creation of a tariff plan change request, the status of the request becomes **P** (Submitted). | | | |

#### 7.9.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consentSign | boolean | Y | Indication of whether the data provided for the change of the tariff plan are correct. The default value is False. |
| objects: [] - *Notification objects.* | | | |
| objectNumber | string | Y | Object number to whom was initiated tariff plan change. |
| newTariffPlan | string | N | The new tariff plan can be specified only for the SBTS. In the case of SKMS, the current tariff plan is set automatically. |
| newTimeZone | string | Y | The new time zone of the object. Possible meanings:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive<br>• N - Not established |
| objects.usedPowerPlants: [] - *Data of used power plants of object.* | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| newAccountingScheme | string | N | New accounting scheme for the generating consumer of the power plant used by the object. Possible values:<br><br>• NET_BILLING<br>• NET_METERING |
| newPayoffMethod | string | N | New payoff method for the generating consumer of the power plant used by the object. Possible values:<br><br>• E - kWh - Recovered electricity energy<br>• G - kW - The power plant's permissible power<br>• P - % - Settlement percentage<br>• S – kWh – PP recovered electricity |

#### 7.9.2.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Tariff plans change notification identification number (ID). |

### 7.9.3 POST /gateway/notification/v3/contract/tariff-plan

**Note:** The v3 endpoint differs from v2 (POST /gateway/notification/v2/contract/tariff-plan) by an additional `tariffPlanChangeType` field, allowing selection of a faster (EXPRESS) tariff plan and/or time zone change; this EXPRESS capability will be activated from 1 January 2027 (date subject to change).

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v3/contract/tariff-plan |
| **Description** | Used to change a tariff plan or a generating consumer's payoff method. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "consentSign": boolean, "objects": [ { "objectNumber": "string", "tariffPlanChangeType": "string", "newTariffPlan": "string", "newTimeZone": "string", "usedPowerPlants": [ { "powerPlantObjectNumber": "string", "newAccountingScheme": "string", "newPayoffMethod": "string" } ] } ] } |

| | |
|---|---|
| **JSON response** | {<br>"notificationId": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |
| **JSON request logic** | JSON request logic version 2 is applied. For examples and a detailed description, see the JSON Request Logic section. |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| Submitted object cannot have the same / matching meters numbers. | 301 | Objects: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* have the same / matching meter number. | objectNumber |
| The meaning of the `objectNumber` notification cannot be repeated. | 7 | The object: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* is repeating. | objectNumber |
| A valid object must be specified. | 8 | The object**:** *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* is not valid. | objectNumber |
| The object must belong to a valid supplier contract that provides the notification. | 9 | The object**:** *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* does not belong to a valid supplier contract. | objectNumber |
| All objects of the notification must belong to the same contract. | 43 | Change not possible. Different contracts for submitted objects. | objectNumber |
| It is possible to change the tariff plan if the supply status of the object is T - Supplied. Otherwise, the change cannot be made. | 320 | Change not possible. The objects: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* supply status is not "T - Supplied". | objectNumber |

| | | | |
|---|---|---|---|
| If the object contract is not signed in the ESO part from supply to distribution, then changing the tariff plan is not possible until the contract is rewritten. | 323 | The object requires a contract rewrite, so changing the tariff plan / time zone/ accounting scheme / payoff method will be possible after the contract rewrite process has been completed in ESO. | objectNumber |
| The system must be checked for the presence of tariff plan change notification with a status not Canceled and not Error. | 339 | Due to possible duplication of information, such a notification to object *{*`objectNumber`*}* is not possible. Please try after 30 minutes. | objectNumber |
| It is possible to change the tariff plan and / or time zone of the object, if the possible date of changing the tariff plan is earlier than or equal to the current date.<br><br>The rule should only be applied if the specified tariff plan and / or time zone is not the same as the existing one.<br><br>**Important:** This validation rule is expected no longer be applicable from 1 January 2027 (the effective date is subject to change). From that date, the following validation logic is expected to apply:<br><br>• If the object's contract type is `SBTS` and the object is eligible for an express tariff plan change, the request is registered to take effect on the first day of the next month. If the request is submitted on the last day of the month, it is registered to take effect on the first day of the month after next.<br>• If the object's contract type is `SBTS` and the object is not eligible for an express tariff plan change:<br>  ○ When changing the time zone (either separately or together with the tariff plan), **rule 346** is applied;<br>  ○ When changing only the tariff plan, the request is registered to take effect on the first day of the next month.<br>• If the object's contract type is SKMS, rule 346 is applied. | 302 | Tariff plan changes are not possible. The object: *{*`objectNumber` *(if there is more than one object, objects must be separated by the semicolon)}* possible tariff plan change date is later than the current date. | objectNumber, tariffPlanChangeDate |
| Must be specified valid used power plants of the object. | 324 | Used power plant *{*`usedPowerPlants.powerPlantObjectNumber`*}* of the object *{*`objectNumber`*}* is not valid or not exist. | usedPowerPlants.powerPlantObjectNumber |

| | | | |
|---|---|---|---|
| The same power plant number cannot be specified more than once for the same object. | 325 | The numbers of the used power plants is repeating for object *{objectNumber}*. | usedPowerPlants.powerPlantObjectNumber |
| If at least one of the following attributes is specified:<br><br>• usedPowerPlants.powerPlantObjectNumber<br>• usedPowerPlants.accountingScheme<br>• usedPowerPlants.payoffMethod<br><br>then both usedPowerPlants.powerPlantObjectNumber and usedPowerPlants.accountingScheme must be specified. | 326 | If at least one attribute of the used power plant is specified, it is mandatory to specify attributes: "The power plant number", "Generating consumer accounting scheme". | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |
| If attribute usedPowerPlants.accountingScheme is filled with the value NET_METERING, then the attribute usedPowerPlants.payoffMethod is mandatory. | 327 | If generating consumer accounting scheme of used power plant is filled "Net metering", then payoff method must be included. | usedPowerPlants.powerPlantObjectNumber, usedPowerPlants.accountingScheme usedPowerPlants.payoffMethod |
| Now attribute's usedPowerPlants.accountingScheme possible values is NET_METERING. If value is specified NET_BILLING, then error message be displayed. | 328 | The selection of the generating consumer accounting scheme "Net billing" is not possible. | usedPowerPlants.accountingScheme |
| The attributes usedPowerPlants.accountingScheme and usedPowerPlants.payoffMethod must not be specified unless usedPowerPlants.generatingObjectType is G (generating consumer) or N (remote generating consumer), and contractType is SBTS. | 329 | Generating consumer accounting scheme and payoff method of used power plant can be filled, if consumer type is GV or NGV and contract type - SBTS. | usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod, usedPowerPlants.generatinObjectType |
| If contractType is SBTS, usedPowerPlants.generatingObjectType is G or N, and usedPowerPlants.accountingScheme differs from the current value, the accounting scheme can be changed only if the generating consumer accounting scheme change date is earlier than or equal to the current date. | 330 | Change not possible. Used power plant *{usedPowerPlants.powerPlantObjectNumber}* of the object: *{objectNumber}* possible generating capacity user accounting scheme change *{usedPowerPlantObjects.accountingSchemeChangeDate}* date is later than the current date. | changeType, contractType, usedPowerPlants.accountingScheme |
| If contractType is SBTS, usedPowerPlants.generatingObjectType is G or N, and usedPowerPlants.payoffMethod differs from the current value, the payoff method can be changed only if the | 331 | Change not possible. Used power plant *{usedPowerPlants.powerPlantObjectNumber}* of the object: *{objectNumber}* possible generating capacity user payoff method change | changeType, contractType, usedPowerPlants.payoffMethod |

| | | | |
|---|---|---|---|
| generating consumer payoff method change date is earlier than or equal to the current date. | | *{*usedPowerPlantObjects.payoffMethod*}* date is later than the current date. | |
| If the attribute contractType is SBTS and the accounting scheme and / or payoff method of used power plant is changing, then the accounting schemes and payoff methods of used power plants must match.<br><br>For example,<br><br>• The object **X** has two used power plants with different accounting schemes:<br>• Used power plant **Y** has accounting scheme NET_BILLING and payoff method -.<br>• Used power plant **Y** has accounting scheme NET_METERING and payoff method S (kWh – PP recovered electricity").<br><br>If changing the accounting scheme (from NET_BILLING to NET_METERING) and the payoff method for the used power plant **Y**, the selected payoff method must match the current payoff method of the used power plant **Z**. If the chosen payoff method does not match → an error message is displayed. | 332 | Change not possible. The accounting schemes and payoff methods of the used power plants of the object: *{*objectNumber*}* must match. | changeType, contractType, usedPowerPlants.accountingScheme, usedPowerPlants.payoffMethod |
| If the object contract type is SBTS, then the mandatory attribute is newTariffPlan. | 303 | For the object: *{*objectNumber*}* it is mandatory to indicate the tariff plan. | newTariffPlan |
| If the object contract type is SBTS, a valid newTariffPlan must be specified. | 304 | There is no tariff plan *{*newTariffPlan*}*. | newTariffPlan |
| If the object contract type is SBTS, then the meaning of the newTariffPlan attribute must be one of the:<br><br>• Namai<br>• Standartinis<br>• Efektyvus<br>• Vidutinė įtampa | 333 | The object: *{*objectNumber*}* tariff plan must be "Namai" / "Standartinis" / "Efektyvus" / "Vidutinė įtampa". | newTariffPlan |

| | | | |
|---|---|---|---|
| When changing the tariff plan of the object(s), at least one of the following attributes must be provided with a value different from the current one:<br><br>• For objects with `contractType SBTS`:<br>  ○ `newTariffPlan`<br>  ○ `newTimeZone`<br>  ○ `newAccountingScheme`<br>  ○ `newPayoffMethod`<br>• For objects with `contractType SKMS`:<br>  ○ `newTimeZone.` | 306 | The object: *{`objectNumber`}* when changing a tariff plan must be changed at least one required field. | newTariffPlan,<br>newTimeZone,<br>newPayoffMethod |
| If the object contract type is `SBTS` and the current tariff plan of object is `Vidutinė įtampa`, then the new `newTariffPlan` must be `Vidutinė įtampa`. | 307 | The object: *{`objectNumber`}* current tariff plan is "Vidutinė įtampa", then the new tariff plan must be "Vidutinė įtampa". | newTariffPlan |
| If the object contract type is `SBTS`, then object `tariffPlan` value `Vidutinė įtampa` cannot be specified, if current `tariffPlan` of object is not `Vidutinė įtampa`. | 334 | The object: *{`objectNumber`}* current tariff plan is not "Vidutinė įtampa", then the new tariff plan can be "Namai" / "Standartinis" / "Efektyvus". | newTariffPlan |
| If the `contractType` is `SKMS` the attribute `newTariffPlan` must not be specified. The current tariff plan will be assigned to the object. | 309 | Contract type of the object: *{objectNumber}* is SKMS, the new tariff plan cannot be specified. | newTariffPlan |
| If the object `contractType` is `SBTS` and attribute `newTariffPlan` is `Namai` or `Vidutinė įtampa`, then the attribute `newTimeZone` meaning must be 1 or 2. | 336 | If the object *{`objectNumber`}* the contract type is SBTS and the new tariff plan is "Namai" or "Vidutinė įtampa", then the new time zone must be "One" or "Two". | newTimeZone,<br>newTariffPlan |
| If the object contract type is `SBTS` and attribute `newTariffPlan` is `Standartinis` or `Efektyvus`, then the attribute `newTimeZone` meaning must be 1 or 2 or 4 (Smart). | 338 | If the object *{`objectNumber`}* the contract type is SBTS and the new tariff plan is "Standartinis" or "Efektyvus", then the new time zone must be "One" or "Two" or "Four (Smart)". | newTimeZone,<br>newTariffPlan |
| If the object `contractType` is `SKMS` and `permitablePowerConsumption` <= 30 kw, the attribute's `newTimeZone` possible values one of the: 1 or 2. | 312 | If the contract type SKMS of the object: *{`objectNumber`}* and PermitablePowerConsumption <= 30 kw, then the new time zone must be "One" or "Two". | newTimeZone |
| If the object `contractType` is `SKMS` and `permitablePowerConsumption` > 30 kw, the attribute's `newTimeZone` possible values is one of the: VR or DR. | 313 | If the contract type SKMS of the object: *{`objectNumber`}* and PermitablePowerConsumption > 30 kw, then the new time zone must be "One with reactive" or "Differentiated with reactive ones". | newTimeZone |

| | | | |
|---|---|---|---|
| It must be checked whether the permissible power for use is specified for the object. | 314 | Failed to set usable power for the object *{objectNumber}*. | objectNumber |
| If the contract type of the object is SBTS and the tariff plan and/or time zone provided in the request different from the tariff plan and/or time zone currently assigned to the object, the tariffPlanChangeType field must be provided. | 340 | If the contract type of object {objectNumber} is "SBTS" and tariff plan and/or time zone change is requested, the tariff plan change type must be provided. | newTariffPlan, newTariffTimeZone, tariffPlanChangeType |
| If the contract type of the object is SBTS and the tariff plan and/or time zone provided in the request does not differ from the tariff plan and/or time zone currently assigned to the object, the tariffPlanChangeType field must not be provided. | 341 | If the contrat type of object {objectNumber} is "SBTS" and neither a tariff plan change nor a time zone change is requested, the tariff pan change type must not be provided. | newTariffPlan, newTariffTimeZone, tariffPlanChangeType |
| If the contract type of the object is SKMS, the tariffPlanChangeType field must not be provided. | 342 | If the contract type of object {objectNumber} is "SKMS", the tariff plan change type must not be provided. | tariffPlanChangeType |
| At the moment attribute's tariffPlanChangeType possible values is STANDARD. If value is specified EXPRESS, then error message be displayed.<br><br>**Important:** This temporary rule is expected to be in effect until 1 January 2027 (the effective date is subject to change). | 343 | The selection of the tariff plan change type "EXPRESS" is not possible. | tariffPlanChangeType |
| If the contract type of the object is SBTS and the object is not eligible for an express tariff plan change, the EXPRESS tariff plan change type must not be specified.<br><br>**Note:** The tariffPlanExpressChangeAvailable attribute indicating eligibility for an express tariff plan change is available in the response of POST /gateway/object/v3/my/active/list.<br><br>**Important:** This validation rule is expected apply from 1 January 2027 (the effective date is subject to change). | 344 | For object {objectNumber}, the tariff plan change type "EXPRESS" is not allowed. | tariffPlanChangeType |
| The EXPRESS tariff plan change type is available only for objects where expressTariffPlanChangeAvailable is true. The following conditions apply only when the EXPRESS tariff plan change type is selected in the request:<br><br>• If the earliest possible change date is the same as the request submission date or has already passed, EXPRESS | 345 | The tariff plan change type "EXPRESS" is currently not available for object *{objectNumber}*. The earliest date when the tariff plan change type "EXPRESS" can be selected is *{calculated* expressAvailableFromDate*}*. | tariffPlanChangeType |

| | | | |
|---|---|---|---|
| can be selected regardless of whether the tariff plan or the time zone is being changed.<br>• If the earliest possible change date is after the request submission date, EXPRESS can be selected depending on whether the tariff plan or the time zone is being changed:<br>  ○ The time zone (either separately or together with the tariff plan) can be changed starting **2 calendar days** before the tariff plan change date.<br>  ○ The tariff plan can be changed starting **1 calendar day** before the tariff plan change date.<br><br>**Examples:**<br><br>• Request date: 2026-08-29<br>Tariff plan change date: 2026-01-01<br>**Result:** EXPRESS is available for both time zone and tariff plan changes.<br>• Request date: 2026-08-29<br>Tariff plan change date: 2026-08-29<br>**Result:** EXPRESS is available for both time zone and tariff plan changes.<br>• Request date: 2026-08-29<br>Tariff plan change date: 2026-09-01<br>EXPRESS is available:<br>- for time zone changes from 2026-08-30<br>- for time zone and tariff plan changes submitted together from 2026-08-30<br>- for tariff plan changes only from 2026-08-31<br><br>**Note:** The tariff plan and/or time zone change request takes effect on the first day of the next month. If the request is submitted on the last day of the month, it is registered to take effect on the first day of the month after next. If an object is eligible for the express tariff plan change, but the STANDARD change type is selected in the request, this rule is not applied.<br><br>**Important:** This validation rule is expected to apply from 1 January 2027 (the effective date is subject to change). | | | |

| | | | |
|---|---|---|---|
| For objects with contract type `SBTS` where `expressTariffPlanChangeAvailable` is `false`, and for objects with contract type `SKMS`, a time zone change is allowed only if the earliest available tariff plan change date is not later than the request submission date.<br><br>**Validation condition:** Earliest available tariff plan change date ≤ request submission date.<br><br>**Examples:**<br><br>• Request date: 2026-08-27, tariff plan change date: 2026-08-01 → Allowed<br>• Request date: 2026-08-27, tariff plan change date: 2026-08-27 → Allowed<br>• Request date: 2026-08-27, tariff plan change date: 2026-09-01 → Not allowed<br><br>**Important:** This validation rule is expected apply from 1 January 2027 (the effective date is subject to change). | 346 | Time zone change is not allowed. The time zone for object *{`objectNumber`}* can be changed starting from *{`tariffPlanChangeDate`}*. | newTimeZone |
| If the attribute `consentSign` is `false`, then the tariff plan change must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |

#### 7.9.3.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consentSign | boolean | Y | Indication of whether the data provided for the change of the tariff plan are correct. The default value is False. |
| objects: [] - *Notification objects.* | | | |
| objectNumber | string | Y | Object number to whom was initiated tariff plan change. |
| tariffPlanChangeType | string (enum) | N | Tariff plan change type. Possible values: |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • EXPRESS - applicable only to SBTS objects that are eligible for the express tariff plan change type. The change is expected to be completed within **2 calendar days from the submission of the request**.<br>• STANDARD - the tariff plan change is carried out according to the object's technical capabilities and the established effective date rules.<br><br>For objects that are not eligible for the express tariff plan change type, the following rules apply:<br><br>• When only the tariff plan is changed, the change takes effect on the first day of the next month.<br>• When both the tariff plan and the time zone are changed, the change is implemented as soon as possible from the moment the request is submitted.<br><br>**Note:** The following additional rules for objects eligible for the express tariff plan change option are expected to take effect on 1 January 2027 (the effective date is subject to change):<br><br>• If the STANDARD change type is selected, a tariff plan change, or a combined tariff plan and time zone change, may take effect on the first day of the next month, provided that request is submitted at least 2 calendar days before the end of the month.<br>• If the request is submitted less than 2 calendar days before the end of the month, the change takes effect on the first day of the following month. |
| newTariffPlan | string (enum) | N | New tariff plan for the object. This field must be provided only for SBTS contracts. Possible values:<br><br>• Namai<br>• Standartinis<br>• Vidutinė įtampa<br>• Efektyvus |
| newTimeZone | string (enum) | Y | The new time zone of the object. Possible values:<br><br>• 1 - One<br>• 2 - Two<br>• VR - One with reactive<br>• 4 - Four (Smart)<br>• DR - Differentiated with reactive |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • N - Not established |
| objects.usedPowerPlants: [] - *Data of used power plants of object.* | | | |
| powerPlantObjectNumber | string | N | Object number of used power plant. |
| newAccountingScheme | string (enum) | N | New accounting scheme for the generating consumer of the power plant used by the object. Possible values:<br><br>• NET_BILLING<br>• NET_METERING |
| newPayoffMethod | string (enum) | N | New payoff method for generating consumers of the power plant used by the object. Possible values:<br><br>• E - kWh - Recovered electricity energy<br>• G - kW - The power plant's permissible power<br>• P - % - Settlement percentage<br>• S – kWh – PP recovered electricity |

#### 7.9.3.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Tariff plans change notification identification number (ID). |

### 7.9.4 POST /gateway/notification/{notificationId}/contract/tariff-plan/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/contract/tariff-plan/cancel |
| **Description** | The method is intended to cancel the tariff plan change. |

| | |
|---|---|
| **Parameter** | URL parameters: *notificationId.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The request can be canceled:<br><br>• only one time<br>• when the notification state is **P** (Submitted)<br>• when the cancellation deadline has not passed (Initial value - 1 hour). | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation of the tariff plan request, the status of the request becomes **A** (Canceled). | | | |

#### 7.9.4.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId (*path*) | integer | Y | The id of the notification to be canceled. |

## 7.10 Notification contract contact controller

### 7.10.1 POST /gateway/notification/v2/contract/contact/list

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/v2/contract/contact/list |
| **Description** | The method is to obtain a list of contact changes. |
| **Parameter** | URL parameters**:** *first, count*, *sortKey*, *sortOrder* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "notificationId": integer, "personCode": "string", "consumerCode": "string", "objectNumber": "string", "objectAddressSearch": "string", "latestStatuses": [ "string" ], "submittedDateFrom": "string", "submittedDateTo": "string", |

```
    "contractType": "string",
    "newCorrespondenceAddressSearch": "string",
    "newPhoneSearch": "string",
    "newEmailSearch": "string",
    "userNameSearch": "string"
}
```


**JSON response**


```
[
    {
        "notificationId": integer,
        "personName": "string",
        "personSurname": "string",
        "personCode": "string",
        "consumerCode": "string",
        "contractType": "string",
        "submittedDate": "string",
        "latestStatus": "string",
        "errorType": "string",
        "userName": "string",
        "newContact": {
            "newCorrespondenceAddress": "string",
            "newMobPhoneNoNetwork": "string",
            "newMobPhoneNo2Network": "string",
            "newPhoneNoNetwork": "string",
            "newMobPhoneNoInvoice": "string",
            "newEmailNetwork": "string",
            "newEmail2Network": "string",
            "newEmailInvoice": "string"
        },
        "contact": {
            "correspondenceAddress": "string",
            "mobPhoneNoNetwork": "string",
            "mobPhoneNo2Network": "string",
            "phoneNoNetwork": "string",
            "mobPhoneNoInvoice": "string",
            "emailNetwork": "string",
            "email2Network": "string",
```

| | |
|---|---|
| | <pre>"emailInvoice": "string"<br>},<br>"objects": [<br>{<br>"objectNumber": "string",<br>"objectAddress": "string",<br>"newMobPhoneNoObject": "string",<br>"mobPhoneNoObject": "string"<br>}<br>],<br>"status": [<br>{<br>"status": "string",<br>"statusDate": "string"<br>}<br>]<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date To. | submittedDateFrom, submittedDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom, submittedDateTo |

#### 7.10.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (query) | integer | N | The index (starting from 0) of the notification that must be presented first in the return list. The default value is 0. |
| count (query) | integer | N | The number of objects in the return list. The default value is 30. |
| sortKey (query) | string | N | The attribute to sort by is specified by the user. The default value is *notificationId.* |
| sortOrder (query) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.10.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | N | Contact change notification identification number (ID). |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| personCode | string (20) | N | Contract owner / tenant person / company code. |
| consumerCode | string (20) | N | Contract owner / tenant consumer code. |
| objectNumber | string (20) | N | Object number. |
| objectAddressSearch | string (4000) | N | Object address. The search by the fragment. |
| latestStatuses | list of strings | N | Notification status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K – Error |
| submittedDateFrom | string (dateTime) | N | The submission date from of the notification. |
| submittedDateTo | string (dateTime) | N | The summation date to of the notification. |
| contractType | string | N | Contract type of the current object. Possible meanings:<br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| newCorrespondenceAddressSearch | string (4000) | N | • Contract owner’s / tenant’s full name of correspondence address.<br>• Search by the fragment. |
| newPhoneSearch | string (4) | N | Search by the fragment. Searching for these contacts:<br>• Contract owner’s / tenant’s new mobile phone number for the network.<br>• Contract owner’s / tenant’s new additional mobile phone number for the network.<br>• Contract owner’s / tenant’s new mobile phone number for the invoice.<br>• Contract owner’s / tenant’s new phone number for the network.<br>• Object’s new mobile phone number for the network. |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| newEmailSearch | string (100) | N | Search by the fragment. Searching for these contacts:<br>• Contract owner’s / tenant’s new email address for the network.<br>• Contract owner’s / tenant’s new additional email address for the network.<br>• Contract owner’s / tenant’s new email address for the invoice. |
| userNameSearch | string (240) | N | The user who created a notification. Search by the fragment. |

#### 7.10.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Contact change notification number (ID). |
| personName | string | Y | Contract owner / tenant / company name. |
| personSurname | string | N | Contract owner / tenant surname. |
| personCode | string | Y | Contract owner / tenant person / company code. |
| consumerCode | string | Y | Contract owner / tenant consumer code. |
| contractType | string | Y | Contract type of the current object. Possible meanings:<br>• SBTS - Household customer<br>• SKMS - Commercial customer |
| submittedDate | string (dateTime) | Y | The submission date of the notification |
| latestStatus | string | Y | Notification newest status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • V – In progress<br>• IV - Completed<br>• K - Error |
| errorType | string | N | Notification error type if status is K (Error). |
| userName | string | Y | The user who initiates the contact change notification. |
| newContact: {} | | | |
| newCorrespondenceAddress | string | Y | Contract owner’s / tenant’s full name of new correspondence address. |
| newMobPhoneNoNetwork | string | N | Contract owner’s / tenant’s new mobile phone number for the network. |
| newMobPhoneNo2Network | string | N | Contract owner’s / tenant’s new additional mobile phone number for the network. |
| newPhoneNoNetwork | string | N | Contract owner’s / tenant’s new phone number for the network. |
| newMobPhoneNoInvoice | string | N | Contract owner’s / tenant’s new mobile phone number for the invoice. |
| newEmailNetwork | string | N | Contract owner’s / tenant’s new email address for the network. |
| newEmail2Network | string | N | Contract owner’s / tenant’s new additional email address for the network. |
| newEmailInvoice | string | N | Contract owner’s / tenant’s new email address for the invoice. |
| contact: {} | | | |
| correspondenceAddress | string | N | Contract owner’s / tenant’s full name of correspondence address. |
| mobPhoneNoNetwork | string | N | Contract owner’s / tenant’s mobile phone number for the network. |
| mobPhoneNo2Network | string | N | Contract owner’s / tenant’s additional mobile phone number for the network. |
| phoneNoNetwork | string | N | Contract owner’s / tenant’s phone number for the network. |
| mobPhoneNoInvoice | string | N | Contract owner’s / tenant’s mobile phone number for the invoice. |
| emailNetwork | string | N | Contract owner’s / tenant’s email address for the network. |
| email2Network | string | N | Contract owner’s / tenant’s additional email address for the network. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| emailInvoice | string | N | Contract owner’s / tenant’s email address for the invoice. |
| objects: [] | | | |
| objectNumber | string | Y | Contract object number. |
| objectAddress | string | Y | Full name of the contract object address. |
| newMobPhoneNoObject | string | N | Object’s new mobile phone number for the network. |
| mobPhoneNoObject | string | N | Object’s mobile phone number for the network. |
| status: [] | | | |
| status | string | Y | Notification newest status. Possible meanings:<br>• P - Submitted<br>• A - Cancelled<br>• I - Sent<br>• V – In progress<br>• IV - Completed<br>• K - Error |
| statusDate | string (dateTime) | Y | Notification status date. |

### 7.10.2 POST /gateway/notification/contract/contact

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/contract/contact |
| **Description** | The method is for independent supplier to transfer the contact change to DH. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the involved party’s authentication key, the involved party ID is used to select the data. |

| | |
|---|---|
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "consumerCode": "string", "consentSign": boolean, "newCorrespondenceAddress": { "newStreet": "string", "newBuilding": "string", "newHousingNo": "string", "newAppartament": "string", "newLocality": "string", "newEldership": "string", "newMunicipality": "string", "newCounty": "string" }, "newContact": { "newMobPhoneNoNetwork": "string", "newMobPhoneNo2Network": "string", "newMobPhoneNoInvoice": "string", "newPhoneNoNetwork": "string", "newEmailNetwork": "string", "newEmail2Network": "string", "newEmailInvoice": "string" }, "objects": [ { "objectNumber": "string", "newMobPhoneNoObject": "string" } ] } |
| **JSON response** | { "notificationId": integer } |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The change of contacts can only be performed for a contract that is currently valid, and the contract's objects must belong to the supplier initiating the change. | 410 | Change not possible. No valid contract found. | consumerCode |
| If the contract type is **SBTS**, then must be at least one contact attribute:<br><br>• "newMobPhoneNoNetwork"<br>• "newTelPhoneNoNetwork"<br>• "newEmailNetwork" | 415 | If the contract type is "SBTS", it is mandatory to specify at least one attribute: "Mob. phone no." or “Phone no.” or "Email address". | newMobPhoneNoNetwork, newEmailNetwork, newTelPhoneNoNetwork |
| If the contract type is **SKMS**, then must be at least one contact attribute:<br><br>• "newMobPhoneNoNetwork"<br>• "newEmailNetwork"<br><br>and one of contacts for the invoices:<br><br>• "newMobPhoneNoInvoice"<br>• "newEmailInvoice"<br><br>**Exception:**<br><br>• Contacts "Mobile phone no" and / or "Email Address" for network work **AND** contacts "Mobile phone no" and / or | 416 | If the contract type is "SKMS", it is mandatory to specify one of the contacts for network work: "Mob. phone no." or "Email Address" and one of the contacts for accounts: "Mob. phone no." or "Email Address". | newMobPhoneNoNetwork, newEmailNetwork, newMobPhoneNoInvoice, newEmailInvoice |

| | | | |
|---|---|---|---|
| "Email Address" for accounts is specified in ESO systems. Rule **416 will not be provided**.<br>• Contacts "Mobile phone no" and "Email Address" for network work **AND** contacts "Mobile phone no" and "Email Address" for accounts is not specified in ESO systems. Rule **416 will be provided**.<br>• Contacts "Mobile phone no" and / or "Email Address" for network work is specified in ESO systems **AND** contacts "Mobile phone no" and "Email Address" for accounts is not specified in ESO systems. **Without specifying at least one of the required contacts for accounts rule 416 will be provided.**<br><br>Contacts "Mobile phone no" and / or "Email Address" for network work is not specified in ESO systems **AND** contacts "Mobile phone no" and "Email Address" for accounts is specified in ESO systems. **Without specifying at least one of the required contacts for network work rule 416 will be provided.** | | | |
| If the contract type is **SBTS** then attributes "newMobPhoneNoInvoice" and "newEmailInvoice" cannot be filled. | 417 | If the contract type "SBTS", then invoice "Mob. phone No." and invoice "Email address" cannot be filled. | newMobPhoneNoInvoice, newEmailInvoice |
| The format of the attributes "newMobPhoneNoNetwork", "newMobPhoneNo2Network", "newMobPhoneNoInvoice" must be: +3706XXXXXXX, X - an integer (0 must be included).<br><br>The format of the attribute "newPhoneNoNetwork" must be: +370XXXXXXXX, X - an integer (0 must be included). The next number after +370 cannot be 6. | 418 | "Mob. phone No.", "Mob. phone No. (optional)" and "Phone no." incorrect format. | newMobPhoneNoNetwork, newMobPhoneNo2Network, newMobPhoneNoInvoice, newPhoneNoNetwork |
| The format of the attributes "newEmailNetwork", "newEmail2Network", "newEmailInvoice" must be [text][@][text][.domain], letters in the text must be Latin.<br><br>Can be at most 64 characters up to @ symbol and cannot begin/end with a dot or special character. | 419 | An "Email address" and "Email address (optional)" incorrect format. | newEmailNetwork, newEmail2Network, newEmailInvoice |
| The attributes "objectNumber" and "newMobPhoneObject" are only filled in if the contract type is SKMS. | 411 | If the contract type is SKMS and "Mobile Phone No." of faults is specified, then "Object No." must be specified. | objectNumber, newMobPhoneNoObject |

| | | | |
|---|---|---|---|
| The attribute "objectNumber" is mandatory if the attribute "newMobPhoneNoObject" is not null. | | | |
| The meaning of the "objectNumber" notification cannot be repeated. | 421 | The object: *[objectNumber]* is repeating. | objectNumber |
| Must be specified valid object.<br><br>The object must belong to a valid supplier contract that provides the notification and the object must have at least one valid meter.<br><br>All objects of the notification must belong to the same contract. | 422 | The object: *[objectNumber]* not found in the system / not belong to a valid supplier contract. | objectNumber |
| The format of the attribute "newMobPhoneNoObject" must be: +3706XXXXXXX, X - an integer (0 must be included). | 414 | "Mob. phone No." incorrect format. | newMobPhoneNoObject |
| If the attribute "consentSign" is **false**, then the tariff plan change must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| If the "contractType" is **SKMS** and there is specified at least one contact for network work, then attributes cannot be filled:<br><br>• "newMobPhoneNoNetwork"<br>• "newEmailNetwork" | 423 | Contact change not possible. One of the contacts for network work: "Mob. phone no." and / or "Email Address" is submitted. | newMobPhoneNoNetwork, newEmailNetwork |
| If the "contractType" is **SKMS** and there is specified at least one contact for accounts, then attributes cannot be filled:<br><br>• "newMobPhoneNoInvoice"<br>• "newEmailInvoice" | 424 | Contact change not possible. One of the contacts for accounts: "Mob. phone no." and / or "Email Address" is submitted. | newMobPhoneNoInvoice, newEmailInvoice |
| Upon successful creation of a contact change request, the status of the request becomes **P** (Submitted). | | | |

#### 7.10.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| consumerCode | string (20) | Y | Contract owner / tenant consumer code. |
| consentSign | boolean | Y | Indication that the contact change data provided are correct. The default value is False. |
| newcorrespondenceAddress: {} | | | |
| newStreet | string (200) | N | New correspondence address’s street. |
| newBuilding | string (100) | N | New correspondence address’s number of the house. |
| newHousingNo | string (100) | N | New Correspondence Address’s Corps Number. |
| newAppartament | string (20) | N | New correspondence address’s apartment number. |
| newLocality | string (200) | N | New correspondence address’s city / village. |
| newEldership | string (200) | N | New correspondence address’s eldership. |
| newMunicipality | string (200) | N | New correspondence address’s municipality. |
| newCounty | string (200) | N | New Correspondence Address’s County. |
| newContact: {} | | | |
| newMobPhoneNoNetwork | string (12) | N | Contract owner’s / tenant’s new mobile phone number for the network. |
| newMobPhoneNo2Network | string (12) | N | Contract owner’s / tenant’s new additional mobile phone number for the network. |
| newMobPhoneNoInvoice | string (12) | N | Contract owner’s / tenant’s new mobile phone number for the invoice. |
| newPhoneNoNetwork | string (12) | N | Contract owner’s / tenant’s new phone number for the network. |
| newEmailNetwork | string (49) | N | Contract owner’s / tenant’s new email address for the network. |
| newEmail2Network | string (49) | N | Contract owner’s / tenant’s new additional email address for the network. |
| newEmailInvoice | string (100) | N | Contract owner’s / tenant’s new email address for the invoice. |
| object: []<br>Filled in only in case of SKMS. | | | |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| objectNumber | string (20) | N | Contract object number. |
| newMobPhoneNoObject | string (12) | N | Object's new mobile phone number for the network. |

#### 7.10.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | Notification identification number (ID). |

### 7.10.3 POST /gateway/notification/{notificationId}/contract/contact/cancel

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/{notificationId}/contract/contact/cancel |
| **Description** | The method is intended to cancel the contact change. |
| **Parameter** | URL parameter: *notificationId* |
| **Header** | The data of the JSON form request are presented in the HTTP request body (**BODY**) (Query JSON structure, below). |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If an attribute has defined possible values, the value index can be specified by specifying the value of the attribute in the request. Indices of all possible values start from 0. | | | All attributes with specified values. |
| The request can be canceled:<br><br>• only one time<br>• when the notification state is **P** (Submitted)<br><br>when the cancellation deadline has not passed (Initial value - 1 hour). | 50 | According to the given parameters, the message to be canceled could not be found / the cancellation deadline has expired / the message has already been canceled. | |
| Upon successful cancellation of the contact request, the status of the request becomes **A** (Cancelled). | | | |

#### 7.10.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId *(path)* | integer | Y | Notification identification number (ID). |

## 7.11 Statistic controller

### 7.11.1 Statistic names

| Service Name | Statistic name | Description |
|---|---|---|
| NOTIFICATION | SK_COUNT | Total number of contract owner change notifications. |

| | | |
|---|---|---|
| | SK_**OBJECT_COUNT** | Total number of objects for contract owner change notifications. |
| | STK_COUNT | Total number of contract owner and supplier change notifications. |
| | STK_**OBJECT_COUNT** | Total number of objects for contract owner and supplier change notifications. |
| | FROM_VT_TO_NT_STK_**OBJECT_COUNT** | Total number of objects for contract owner and supplier change notifications from public to independent supplier. |
| | FROM_GT_TO_NT_STK_**OBJECT_COUNT** | Total number of objects for contract owner and supplier change notifications from warranty to independent supplier. |
| | FROM_NT_TO_NT_STK_**OBJECT_COUNT** | Total number of objects for contract owner and supplier change notifications from independent-to-independent supplier. |
| | NTK_COUNT | Total number of suppliers change notifications. |
| | NTK_**OBJECT_COUNT** | Total number of objects for supplier change notifications. |
| | FROM_VT_TO_NT_NTK_**OBJECT_COUNT** | Total number of objects for supplier change notifications from public to independent supplier. |
| | FROM_GT_TO_NT_NTK_**OBJECT_COUNT** | Total number of objects for supplier change notifications from warranty to independent supplier. |
| | FROM_NT_TO_NT_NTK_**OBJECT_COUNT** | Total number of objects for supplier change notifications from independent-to-independent supplier. |
| | CONTRACT_TERMINATION_COUNT | Total number of contract termination notifications. |
| | CONTRACT_TERMINATION_**OBJECT_COUNT** | Total number of objects for contract termination notifications. |
| | NTK_CANCELLATION_COUNT | Total number of cancellations of supplier change notifications. |
| | NTK_CANCELLATION_**OBJECT_COUNT** | Total number of objects for cancellations of supplier change notifications. |
| | SK_CANCELLATION_COUNT | Total number of cancellations of contract owner change notifications. |

| | | |
|---|---|---|
| | SK_CANCELLATION_**OBJECT_COUNT** | Total number of objects for cancellations of contract owner change notifications. |
| | STK_CANCELLATION_COUNT | Total number of cancellations of contract owner change and supplier change notifications. |
| | STK_CANCELLATION_**OBJECT_COUNT** | Total number of objects for cancellations of contract owner change and supplier change notifications. |
| | AP_CANCELLATION_**OBJECT_COUNT** | Total number of objects for cancellations of supply state change notifications with change type DD (Disconnection due to the debt). |
| | CONTACT_CHANGE_COUNT | Total number of contact change notifications. |
| | CONTACT_CHANGE_**OBJECT_COUNT** | Total number of objects for contact change notifications. |
| | TARIFF_PLAN_COUNT | Total number of tariff plan change notifications. |
| | TARIFF_PLAN_**OBJECT_COUNT** | Total number of objects for tariff plan change notifications. |
| | SUPPLY_STATE_**OBJECT_COUNT** | Total number of objects for supply state change notifications. |
| | NRT_ENABLE_COUNT | Total number of NRT service activation requests. |
| | NRT_DISABLE_COUNT | Total number of NRT service deactivation requests. |
| | NRT_AUTO_DISABLE_COUNT | Total number of NRT service auto-deactivation requests. |
| DECLARATION | DECLARATION_**OBJECT_COUNT** | Total number of declared objects. |
| ACCESS_RIGHT | ACCESS_RIGHT_COUNT | Total number of rights granted. |
| CONTRACT_OBJECT | CONTRACT_**OBJECT_COUNT** | Total number of supplier objects. |
| BILL | BILL_COUNT | Total number of bills. |
| | BILL_**OBJECT_COUNT** | Total number of objects for bills. |
| ORDER | REPORT_OBJ_COUNT | Total number of orders (object report). |

| | | |
|---|---|---|
| | REPORT_OBJ_**OBJECT_COUNT** | Total number of objects for orders (object report). |
| | REPORT_OBJ_ACR_COUNT | Total number of orders (object report based on granted rights). |
| | REPORT_OBJ_ACR_**OBJECT_COUNT** | Total number of objects for orders (object report based on granted rights). |
| | DATA_HR_15MIN_MTR_LVL_QUARTER_COUNT | Total number of orders (15MIN automated quantities at the meter level report). |
| | DATA_HR_15MIN_MTR_LVL_QUARTER_**OBJECT_COUNT** | Total number of objects for orders (15MIN automated quantities at the meter level report). |
| | DATA_HR_15MIN_OBJ_LVL_QUARTER_COUNT | Total number of orders (15MIN automated quantities at the object level report). |
| | DATA_HR_15MIN_OBJ_LVL_QUARTER_**OBJECT_COUNT** | Total number of objects for orders (15MIN automated quantities at the object level report). |
| | DATA_HR_15MIN_MTR_LVL_ACR_QUARTER_COUNT | Total number of orders (15MIN automated quantities at the meter level report based on granted rights). |
| | DATA_HR_15MIN_MTR_LVL_ACR_QUARTER_**OBJECT_COUNT** | Total number of objects for orders (15MIN automated quantities at the meter level report based on granted rights). |
| | DATA_HR_15MIN_OBJ_LVL_ACR_QUARTER_COUNT | Total number of orders (15MIN automated quantities at the object level report based on granted rights). |
| | DATA_HR_15MIN_OBJ_LVL_ACR_QUARTER_**OBJECT_COUNT** | Total number of objects for orders (15MIN automated quantities at the object level report based on granted rights). |
| | DATA_HR_15MIN_MTR_LVL_HOUR_COUNT | Total number of orders (HOUR automated quantities at the meter level report). |
| | DATA_HR_15MIN_MTR_LVL_HOUR_**OBJECT_COUNT** | Total number of objects for orders (HOUR automated quantities at the meter level report). |
| | DATA_HR_15MIN_OBJ_LVL_HOUR_COUNT | Total number of orders (HOUR automated quantities at the object level report). |

| | | |
|---|---|---|
| | DATA_HR_15MIN_OBJ_LVL_HOUR_**OBJECT_COUNT** | Total number of objects for orders (HOUR automated quantities at the object level report). |
| | DATA_HR_15MIN_OBJ_LVL_ACR_HOUR_COUNT | Total number of orders (HOUR automated quantities at the object level report based on granted rights). |
| | DATA_HR_15MIN_OBJ_LVL_ACR_HOUR_**OBJECT_COUNT** | Total number of objects for orders (HOUR automated quantities at the object level report based on granted rights). |
| | DATA_HR_15MIN_MTR_LVL_ACR_HOUR_COUNT | Total number of orders (HOUR automated quantities at the meter level report based on granted rights). |
| | DATA_HR_15MIN_MTR_LVL_ACR_HOUR_**OBJECT_COUNT** | Total number of objects for orders (HOUR automated quantities at the meter level report based on granted rights). |
| | DATA_SUM_OBJ_LVL_ACR_COUNT | Total number of orders (report of total quantities based on granted rights). |
| | DATA_SUM_OBJ_LVL_ACR_**OBJECT_COUNT** | Total number of objects for orders (report of total quantities based on granted rights). |
| | BILL_BSS_B2B_COUNT | Total number of orders (billing report for BSS model B2B). |
| | BILL_BSS_B2B_**OBJECT_COUNT** | Total number of objects for orders (billing report for BSS model B2B). |
| | BILL_BSS_B2C_COUNT | Total number of orders (billing report for BSS model B2C). |
| | BILL_BSS_B2C_**OBJECT_COUNT** | Total number of objects for orders (billing report for BSS model B2C). |
| | BILL_2S2S_B2B_COUNT | Total number of orders (billing report for 2S2S model B2B). |
| | BILL_2S2S_B2B_**OBJECT_COUNT** | Total number of objects for orders (billing report for 2S2S model B2B). |
| | BALANCE_DATA_QUARTER_COUNT | Total number of balance data reports (15MIN). |
| | BALANCE_DATA_HOUR_COUNT | Total number of balance data reports (HOUR). |
| | BALANCE_BY_GENERATION_TYPE_QUARTER_COUNT | Total number of balances by generation type reports (15MIN). |

| | | |
|---|---|---|
| | BALANCE_BY_GENERATION_TYPE_HOUR_COUNT | Total number of balances by generation type reports (HOUR). |
| | DATA_SUM_OBJ_LVL_COUNT | Total number of orders (report of total quantities). |
| | DATA_SUM_OBJ_LVL_**OBJECT_COUNT** | Total number of objects for orders (report of total quantities). |
| | DATA_HR_15MIN_HISTORY_CHANGES_COUNT | Total number of orders (Net billing accounting scheme changes of interval data). |
| | DATA_HR_15MIN_HISTORY_CHANGES_**OBJECT_COUNT** | Total number of objects for orders (Net billing accounting scheme changes of interval data). |
| | DATA_DAILY_OBJ_LVL_COUNT | Total number of daily quantities grouped by objects reports. |
| | DATA_DAILY_OBJ_LVL_**OBJECT_COUNT** | Total number of objects by orders (daily quantities grouped by objects). |
| | DATA_DAILY_MTR_LVL_COUNT | Total number of daily quantities grouped by meters reports. |
| | DATA_DAILY_MTR_LVL_**OBJECT_COUNT** | Total number of objects by orders (daily quantities grouped by meters). |
| | MOVE_IN_OBJ_COUNT | Total number of Reports of Incoming Objects. |
| | MOVE_IN_OBJ_**OBJECT_COUNT** | The total count of objects in Report of Incoming Objects. |
| | MOVE_OUT_OBJ_COUNT | Total number of Reports of Outgoing Objects. |
| | MOVE_OUT_OBJ_**OBJECT_COUNT** | The total count of objects in Report of Outgoing Objects. |
| | POWER_PLANT_COUNT | Total number of involved party orders (power plant). |
| | POWER_PLANT_OBJECT_COUNT | Total number of objects for involved party orders (power plant). |
| | BALANCE_DATA_QUARTER_PERMISSION_COUNT | Total number of balance data reports ordered by permission (15MIN). |
| | BALANCE_DATA_HOUR_PERMISSION_COUNT | Total number of balance data reports ordered by permission (HOUR). |
| | BALANCE_BY_GENERATION_TYPE_QUARTER_PERMISSION_COUNT | Total number of balance by generation type reports ordered by permission (15MIN). |

| | | |
|---|---|---|
| | BALANCE_BY_GENERATION_TYPE_HOUR_PERMISSION_COUNT | Total number of balance by generation type reports ordered by permission (HOUR). |
| | DSO_CONSUMPTION_PRODUCTION_QUARTER_COUNT | Total number of DSO users' consumption and production reports (15-minute interval data). |
| | DSO_CONSUMPTION_PRODUCTION_HOUR_COUNT | Total number of DSO users' consumption and production reports (1-hour interval data). |
| | NRT_CHARGED_METERS_COUNT | Number of ordered reports of billed meters for the NRT service. |
| INVOLVED_PARTY_PERMISSION | GRANTED_PERMISSION_BALANCE_DATA_COUNT | Total number of granted permissions for the balance data report. |
| | GRANTED_PERMISSION_BALANCE_BY_GENERATION_TYPE_COUNT | Total number of granted permissions for the balance by generation type report. |
| | RECEIVED_PERMISSION_BALANCE_DATA_COUNT | Total number of received permissions for the balance data report. |
| | RECEIVED_PERMISSION_BALANCE_BY_GENERATION_TYPE_COUNT | Total number of received permissions for the balance by generation type report. |
| MESSAGING | INTERVAL_DELTA_READING_EVENT_COUNT | Total number of interval consumption (generation) data files. |
| | INTERVAL_DELTA_READING_EVENT_OBJECT_COUNT | Total number of unique objects in the interval consumption (generation) data file. |
| | INTERVAL_DELTA_READING_EVENT_METER_COUNT | Total number of unique meters in the interval consumption (generation) data file. |

### 7.11.2 GET /gateway/statistic/list

| | |
|---|---|
| **Endpoint** | GET gateway/statistic/list |
| **Description** | The method is intended to obtain statistic values. |
| **Parameter** | URL parameters*: first, count, statisticPeriods, serviceNames, contractModels, contractTypes, meterAccountingTypes, generatingObjectTypes, filterZeroValue, objectAccountingTypes.* |

| | |
|---|---|
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>{<br>"serviceName": "string",<br>"statisticName": "string",<br>"statisticPeriod": "string",<br>"contractModel": "string",<br>"contractType": "string",<br>"generatingObjectType": "string",<br>"meterAccountingType": "string",<br>"objectAccountingType": "string",<br>"statisticValue": integer<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |

#### 7.11.2.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first *(query)* | integer | N | Index (starting from 0) of the count that must be presented first in the return list. The default value is 0. |
| count *(query)* | integer | N | Number of entries in the return list. The default value is 30. |
| statisticPeriods *(query)* | list of strings | Y | Statistic periods. |
| serviceNames *(query)* | list of strings | N | Service names. Possible meanings:<br>• NOTIFICATION<br>• DECLARATION<br>• ACCESS_RIGHT<br>• CONTRACT_OBJECT<br>• ORDER<br>• BILL<br>• INVOLVED_PARTY_PERMISSION<br>• MESSAGING |
| statisticNames *(query)* | list of strings | N | Statistic names. The available options are described in Statistic Names. |
| contractModels *(query)* | list of strings | N | Contract models of objects. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S – Two contracts – Two bills<br>• NONE – No value |
| contractTypes *(query)* | list of strings | N | Contract types of objects. Possible meanings:<br>• SBTS – Household customer<br>• SKMS – Commercial customer<br>• NONE - No value |

| | | | |
|---|---|---|---|
| meterAccountingTypes *(query)* | list of strings | N | Meter accounting types of objects. Possible meanings:<br><br>• AUTO – automated<br>• NON-AUTO – not automated<br>• NO-METER – no meters<br>• NONE – no value |
| generatingObjectTypes *(query)* | list of strings | N | Generating object types. Possible meanings:<br><br>• G – Generating consumer<br>• N – Distant generating consumer<br>• NO-TYPE – No generating object type<br>• NONE – No value |
| objectAccountingTypes *(query)* | list of strings | N | Filter null values. Possible meanings:<br><br>• true (select records with values more than 0)<br>• false (select records with all values) |
| filterZeroValue *(query)* | boolean | N | Object accounting types. Possible meanings:<br><br>• NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates Eur<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw<br>• NONE – no value<br>• NO_TYPE - not suitable for or intended for historical data records |

#### 7.11.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| serviceName | string | Y | Service name. Possible meanings: |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • NOTIFICATION<br>• DECLARATION<br>• ACCESS_RIGHT<br>• CONTRACT_OBJECT<br>• ORDER<br>• BILL<br>• INVOLVED_PARTY_PERMISSION<br>• MESSAGING |
| statisticName | string | Y | Statistic name. |
| statisticPeriod | string (date) | Y | Statistic period. Date format specified to YYYY-MM. |
| contractModel | string | Y | Contract model of object. Possible meanings:<br>• BSS - General contract bills<br>• 2S2S – Two contracts – Two bills<br>• NONE – No value |
| contractType | string | Y | Contract type of object. Possible meanings:<br>• SBTS – Household customer<br>• SKMS – Commercial customer<br>• NONE - No value |
| generatingObjectType | string | Y | Generating object type. Possible meanings:<br>• G – Generating consumer<br>• N – Distant generating consumer<br>• NO-TYPE – No generating object type<br>• NONE – No value |
| meterAccountingType | string | Y | Meter accounting type of object. Possible meanings:<br>• AUTO – automated<br>• NON-AUTO – not automated<br>• NO-METER – no meters<br>• NONE – no value |
| objectAccountingType | string | Y | Object accounting type. Possible meanings: |

| Attribute | Type | Mandatory | Description |
| --- | --- | --- | --- |
| | | | • NET_METERING – accumulates kwh<br>• NET_BILLING – accumulates Eur<br>• NET_METERING_NET_BILLING - accumulates kwh and Eur<br>• POWER_PLANT - sells kwh<br>• CONSUMER - only consuming<br>• ENERGY_SHARER – sharing kw<br>• NONE – no value<br>• NO_TYPE - not suitable for or intended for historical data records |
| statisticValue | integer | Y | Statistic calculated value. |

## 7.12 Involved party permission controller

### 7.12.1 POST /gateway/involved-party-permission/list

| | |
|---|---|
| **Endpoint** | POST /gateway/involved-party-permission/list |
| **Description** | The method is designed to get the list of granted permissions for sharing report data with the specified involved party. |
| **Parameter** | URL parameters: *first, count, sortKey, sortOrder.* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"involvedPartyPermissionId": integer,<br>"involvedPartyFrom": {<br>"involvedPartyCode": "string",<br>"involvedPartyType": "string"<br>},<br>"involvedPartyTo": {<br>"involvedPartyCode": "string",<br>"involvedPartyType": "string"<br>},<br>"permissionOrderTypes": [<br>"string",<br>"string"<br>],<br>"permissionValidFrom": "string",<br>"permissionValidTo": "string",<br>"canceled": boolean<br>} |
| **JSON response** | [<br>{<br>"involvedPartyPermissionId": integer,<br>"involvedPartyFrom": { |

| | |
|---|---|
| | <pre>"involvedPartyCode": "string",<br>"involvedPartyName": "string",<br>"involvedPartyType": "string"<br>},<br>"involvedPartyTo": {<br>"involvedPartyCode": "string",<br>"involvedPartyName": "string",<br>"involvedPartyType": "string"<br>},<br>"permissionOrderType": "string",<br>"permissionValidFrom": "string",<br>"permissionValidTo": "string",<br>"canceled": boolean,<br>"userName": "string"<br>}<br>]</pre> |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| Only the permissions belonging to the initiating party should be included, and any deleted permissions should be excluded. | | | |
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom, submittedDateTo |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| If filters are selected to search records within a date range based on the permission validity start ("permissionValidFrom") | | | |

| | | | |
|---|---|---|---|
| and end ("permissionValidTo") dates, records with at least one valid day within the specified date range should be included. | | | |

#### 7.12.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first (*query*) | integer | N | The index (starting from 0) of the permission that must be presented first in the return list. The default value is 0. |
| count (*query*) | integer | N | Number of permissions in the return list. Optional. The default value is 30. |
| sortKey (*query*) | string | N | The attribute to sort by. By default, the list must be sorted by the column involvedPartyPermissionId. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order. Possible meanings: ASC, DESC. The default value is ASC. |

#### 7.12.1.2 JSON request structure

The table below describes the structure of the JSON request:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| involvedPartyPermissionId | integer | N | Identification number of the granted permission. Search by full value. |
| involvedPartyFrom: {} | | | |
| involvedPartyCode | string | N | Company code of the involved party that granted the permission. Search by full value. |
| involvedPartyType | string | N | Type of the involved party that granted the permission. Possible meanings:<br>• INDEPENDENT_SUPPLIER<br>• GUARANDEED_SUPPLIER |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | Search by full value. |
| involvedPartyTo: {} | | | |
| involvedPartyCode | string | N | Company code of the involved party to whom the permission was granted. Search by full value. |
| involvedPartyType | string | N | Type of the involved party to whom the permission was granted. Possible meanings:<br>• INDEPENDENT_SUPPLIER<br>• GUARANDEED_SUPPLIER<br>Search by full value. |
| permissionOrderTypes | list of strings | N | Types of reports for which permission is granted. Possible meanings:<br>• balance-data - Balance data report<br>• balance-by-generation-type – Balance by generation type report<br>Partial search. |
| permissionValidFrom | string (date) | N | Permission validity start date. |
| permissionValidTo | string (date) | N | Permission validity end date. |
| canceled | boolean | N | Permission cancellation indicator. Possible meanings:<br>• true: permission is cancelled<br>• false: permission is not cancelled (default value) |

#### 7.12.1.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| involvedPartyPermissionId | integer | Y | Identification number of the granted permission. |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| involvedPartyFrom: {} | | | |
| involvedPartyCode | string | Y | Company code of the involved party that granted the permission. |
| involvedPartyName | string | Y | Company name of the involved party that granted the permission. |
| involvedPartyType | string | Y | Type of the involved party that granted the permission. Possible meanings:<br>• INDEPENDENT_SUPPLIER<br>• GUARANDEED_SUPPLIER |
| involvedPartyTo: {} | | | |
| involvedPartyCode | string | Y | Company code of the involved party to whom the permission was granted. |
| involvedPartyName | string | Y | Company name of the involved party to whom the permission was granted. |
| involvedPartyType | string | Y | Type of the involved party to whom the permission was granted. Possible meanings:<br>• INDEPENDENT_SUPPLIER<br>• GUARANDEED_SUPPLIER |
| permissionOrderType | string | Y | Types of reports for which permission is granted. Possible meanings:<br>• balance-data - Balance data report<br>• balance-by-generation-type – Balance by generation type report |
| permissionValidFrom | string (date) | Y | Permission validity start date. |
| permissionValidTo | string (date) | Y | Permission validity end date. |
| canceled | boolean | Y | Permission cancellation indicator. Possible meanings:<br>• true: permission is cancelled<br>• false: permission is not cancelled |
| userName | string | N | The user who granted permission. |

## 7.13 Messaging controller

The Messaging Controller is designated for rendering events and facilitating the transfer of event data with the possibility to download data files.

### 7.13.1 GET /gateway/messaging/events

| | |
|---|---|
| **Endpoint** | GET /gateway/messaging/events |
| **Description** | The method is used to retrieve information about events over a specified period. |
| **Parameter** | URL parameters: *dateTimeFrom, dateTimeTo, eventType* |
| **Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | – |
| **JSON response** | [<br>{<br>"eventType": "string",<br>"reference": "string",<br>"eventDateTime": "string"<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateTimeFrom<br>dateTimeTo |
| Date from and Date to are required. | 1005 | Date from and Date to are required. | dateTimeFrom<br>dateTimeTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateTimeFrom<br>dateTimeTo |
| The requested period must not exceed 7 days | 1032 | The requested period must not exceed 7 days. Please select a shorter time range | dateTimeFrom<br>dateTimeTo |

#### 7.13.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateTimeFrom | string (dateTime with time zone) | Y | The start date and time with time zone of the interval from which records are requested.<br>Format example: 2025-04-29T00:15:00+03:00 |
| dateTimeTo | string (dateTime with time zone) | Y | The end date and time with time zone of the interval up to which records are requested.<br>Format example: 2025-04-29T00:15:00+03:00 |
| eventType | list of strings | N | Type of the recorded event. Possible values:<br>• DELTA_INTERVAL_READING:<br>o The event type DELTA_INTERVAL_READING is generated by the Delta Interval Reading service.<br>o The Delta Interval Reading service provides 15-minute electricity consumption and production data as a downloadable file. Data is delivered according to the DELTA principle, meaning that if any values change, updated consumption or production data for the same meter and time interval will be provided with the latest values.<br>o This service must be requested separately through a dedicated process, based on the need for an independent supplier.<br>• ACCOUNTING_PERIOD_CLOSED:<br>o This event type indicates that the accounting period is closed, and the billing reports are available for use. |

#### 7.13.1.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| eventType | string | Y | The type of event. Possible meanings: |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • DELTA_INTERVAL_READING<br>• ACCOUNTING_PERIOD_CLOSED |
| reference | string | Y | Reference of the event. Possible meanings:<br>• if eventType is 'DELTA_INTERVAL_READING', then reference returns file name in format: delta_interval_reading_IIIIIIIIII_YYYYMMDDHH24MI.avro, where:<br>  ○ IIIIIIIIII - involved party ID<br>  ○ YYYYMMDDHH24MI - timestamp indicating when the file was created.<br>• when eventType is 'ACCOUNTING_PERIOD_CLOSED', the reference indicates the date of the closed accounting period in the format YYYY-MM. |
| eventDateTime | string | Y | Date and time with time zone when the event record was created.<br>Format: 2025-04-29T00:15:00+03:00 |

### 7.13.2 GET /gateway/messaging/files

| | |
|---|---|
| **Endpoint** | GET /gateway/messaging/files |
| **Description** | This method is used to download files. The response includes the file itself along with metadata in the response headers. |
| **Parameter** | URL parameters: *fileName* |
| **Request Header** | After decrypting the involved party's authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | - |
| **Response Header** | The file name is provided along with the file metadata:<br>Content-Disposition: attachment; filename = *fileName*<br>Content-Type: application/octet-stream |
| **JSON response** | The response should return an .avro data file.<br>Follow the Apache Avro specification for decoding and interpreting the file contents. |

| | |
|---|---|
| | The AVRO schema is provided below. |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| Files generated by the Delta Interval Reading service are in .avro format | | | |
| Only the active files associated with the initiating interested party should be available for download | 3500 | The requested file could not be found. Please check the request parameters and try again | |

#### 7.13.2.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| fileName | string | Y | The name of the file, which is obtained from the method: GET /gateway/messaging/event. |

#### 7.13.2.2 AVRO Schema

The .avro files returned by the GET /gateway/messaging/files endpoint follow the structure defined below.

| AVRO Schema |
|---|
| { |

```
"type": "record",
"name": "DeltaIntervalReadingReport",
"namespace": "lt.ignitis.gpc.datahub.avro.reading",
"fields": [
   {
      "name": "meters",
      "type": [
         "null",
         {
            "type": "array",
            "items": {
               "type": "record",
               "name": "DeltaIntervalReadingMeterReport",
               "namespace": "lt.ignitis.gpc.datahub.avro.reading.DeltaIntervalReadingReport",
               "fields": [
                  {
                     "name": "categories",
                     "type": [
                        "null",
                        {
                           "type": "array",
                           "items": {
                              "type": "record",
                              "name": "MeterCategoryReport",
                              "fields": [
                                 {
                                    "name": "category",
                                    "type": [
                                       "null",
                                       "string"
                                    ],
                                    "default": null
                                 },
                                 {
                                    "name": "readings",
                                    "type": [
                                       "null",
                                       {
                                          "type": "array",
                                          "items": {
                                             "type": "record",
                                             "name": "CategoryReadingReport",
                                             "fields": [
                                                {
```

```
            "name": "amount",
            "type": [
               "null",
               {
                  "type": "string",
                  "java-class": "java.math.BigDecimal"
               }
            ],
            "default": null
         },
         {
            "name": "collectedAt",
            "type": [
               "null",
               "string"
            ],
            "default": null
         },
         {
            "name": "readingTime",
            "type": [
               "null",
               "string"
            ],
            "default": null
         },
         {
            "name": "valueType",
            "type": [
               "null",
               {
                  "type": "enum",
                  "name": "EReadingCategoryValueType",
                  "namespace": "lt.ignitis.gpc.datahub.avro.reading",
                  "symbols": [
                     "EST",
                     "VAL"
                  ]
               }
            ],
            "default": null
         }
      ]
   },
```

```
                                        "java-class": "java.util.List"
                                    }
                                ],
                                "default": null
                            }
                        ]
                    },
                    "java-class": "java.util.List"
                }
            ],
            "default": null
        },
        {
            "name": "meterNumber",
            "type": [
                "null",
                "string"
            ],
            "default": null
        }
    ]
},
"java-class": "java.util.List"
}
],
"default": null
},
{
"name": "objectNumber",
"type": [
"null",
"string"
],
"default": null
}
]
}
```

### 7.13.2.3 AVRO file structure

The table below describes the structure of the AVRO file:

| Attribute | Type | Description |
|---|---|---|
| meters | array | List of meters for which readings are reported |
| meters.categories | array | Categories used to group readings (e.g., +A, -A, +R, -R) |
| meters.categories.category | string | Category identifier. Possible values:<br>+A active consumption energy<br>-A active generation energy<br>+R reactive consumption energy<br>-R reactive generation energy |
| meters.categories.readings | array | List of readings associated with the category |
| meters.categories.readings.amount | string | Measured energy amount (e.g., 0.372 kWh) |
| meters.categories.readings.collectedAt | string | Timestamp when the data was collected |
| meters.categories.readings.readingTime | string | Timestamp representing the time of the reading (**end of interval**) |
| meters.categories.readings.valueType | string | Type of reading: EST (estimated) or VAL (validated) |
| meters.meterNumber | string | Meter serial number |
| objectNumber | string | Identifier of the object to which the meter belongs |

## 7.14 Meter controller

### 7.14.1 POST /gateway/meters/search

| | |
|---|---|
| **Endpoint** | POST /gateway/meters/search |
| **Description** | Returns a list of meter numbers, filtered by the specified parameters. |
| **Parameter** | URL parameters: *first, count.* |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "meterNumbers": [ "string" ], "nrt": { "available": boolean, "enabled": boolean }, "objectNumbers": [ "string" ] } |
| **JSON response** | [ { "meterNumber": "string", "objectNumber": "string", "type": "string", "automated": boolean, "validFrom": "string", |

| | |
|---|---|
| | "validTo": "string",<br>"nrt": {<br>"available": boolean,<br>"enabled": boolean,<br>"enabledAt": "string"<br>}<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |
| **JSON request logic** | JSON request logic version 2 is applied. For examples and a detailed description, see the JSON Request Logic section. |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The attributes meterNumbers and objectNumbers must not contain more than 500 values each. | 1004 | The number of values for the attribute meterNumbers must not exceed 500. | meterNumbers |
| | | The number of values for the attribute objectNumbers must not exceed 500. | objectNumbers |
| The value of the count parameter must be less or equal to 10 000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |

#### 7.14.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. The default value is 10 000. |

#### 7.14.1.1 JSON request structure

The table below describes the structure of the JSON request:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| meterNumbers | list of strings | N | Meter numbers. |
| nrt: {} | | | |
| available | boolean | N | Indicates whether the meter supports the 15-minute near real-time (NRT) reading service. Possible values:<br>• true – returns only meters with NRT service support<br>• false – returns only meters without NRT service support<br>• null – no filtering is applied |
| enabled | boolean | N | Indicates whether the 15-minute near real-time (NRT) reading service is activated for the specified meter. Possible values:<br>• true – the NRT service is active<br>• false – the NRT service is not active<br>• null – no filtering is applied (both active and inactive meters are included) |
| objectNumbers | list of strings | N | Object numbers. |

### 7.14.1.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| meterNumber | string | Y | Meter number. |
| objectNumber | string | Y | Identifier of the object where the meter is installed. |
| type | string | Y | The type of the meter. |
| automated | boolean | Y | Indicates whether the meter is automated. Possible values:<br>• true – the meter is automated<br>• false – the meter is not automated |
| validFrom | string (dateTime) | Y | The start date of the meter's validity in the object. The value is provided in ISO 8601 format without a time zone. |
| validTo | string (dateTime) | N | The end date of the meter's validity in the object. The value is provided in ISO 8601 format without a time zone. |
| nrt: {} | | | |
| available | boolean | Y | Indicates whether the meter is eligible for the NRT service (15-minute data). Possible values:<br>• true – the NRT service is available<br>• false – the NRT service is not available<br>The NRT service is available only for meters that meet the following conditions:<br>• the meter is automated (MDM)<br>• the meter is valid in the object |
| enabled | boolean | Y | Indicates whether the NRT service (15-minute data) is activated for the meter. Possible values:<br>• true – the NRT service is activated<br>• false – the NRT service is not activated |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| enabledAt | string (dateTime) | N | The activation date of the NRT service (15-minute data) for the meter. The value is provided in ISO 8601 format without a time zone.<br><br>This attribute is returned only when nrt.enabled is set to true; otherwise, it is not returned. |

## 7.15 Notification NRT controller

### 7.15.1 GET /gateway/notification/nrt/limits

| | |
|---|---|
| **Endpoint** | GET /gateway/notification/nrt/limits |
| **Description** | Returns the number of meters that can currently be activated for the NRT service. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | `1` |
| **JSON response** | {<br>"remainingQuantity": integer<br>} |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The request is processed only if service is enabled. | 3201 | The service is not enabled. Please contact the designated responsible person for assistance. | - |

#### 7.15.1.1 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| remainingQuantity | integer | Y | The remaining quantity of meters that can be activated for NRT settings.<br><br>The value is calculated as the maximum service limit minus active and pending meter activations. |

### 7.15.2 POST /gateway/notification/nrt/bulk

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/nrt/bulk |
| **Description** | Creates batch activation or deactivation requests for the Near-Real-Time (NRT) service for multiple meters and returns the generated notification IDs. |
| **Parameter** | No parameters. |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | {<br>"action": "string",<br>"consentSign": boolean, |

| | |
|---|---|
| | "meterNumbers": [<br>"string"<br>]<br>} |
| **JSON response** | [<br>{<br>"notificationId": integer<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| If the *consentSign* attribute is set to false, the notification must be disabled. | 32 | It is necessary to confirm that the data provided is correct. | consentSign |
| The request is processed only if service is enabled. | 3201 | The service is not enabled. Please contact the designated responsible person for assistance. | |
| The attribute meterNumbers must not contain more than 500 values. | 1004 | The number of values for the attribute meterNumbers must not exceed [500]. | meterNumbers |
| The attribute meterNumbers must not contain duplicate values. | 1006 | The value(s) of the meterNumbers *[{values separated by semicolons}]* are duplicated. | meterNumbers |
| The request must be executed only if the remaining meter limit is sufficient. If the limit is exceeded, the request must not be initiated. | 3251 | The request cannot be processed because the meter limit has been exceeded. Please verify the remaining limit and try again. | |
| The request must include an existing meter number. If the meter number does not exist, an error must be returned. | 3252 | The meter *[{meterNumber}]* was not found. Please verify the provided data and try again. | meterNumbers |

| | | | |
|---|---|---|---|
| For each meter provided in the request, validate that the NRT service is available. If any meter is not eligible, the request must be rejected. | 3253 | The service is not available for meter *[{meterNumber}]*. Please verify the provided data and try again. | meterNumbers |
| All meters included in the request must belong to the independent supplier submitting the request. | 3254 | Meter number *[{meterNumber}]* does not belong to the supplier. Please verify the provided data and try again. | meterNumbers |
| The NRT service must not be activated for a meter if the service is already active. | 3255 | The NRT service is already activated for meter No. *[{meterNumber}]*. | meterNumbers |
| A service may be disabled only if it is active on the meter. | 3256 | The action is not allowed: the NRT service on meter No. *[{meterNumber}]* is inactive. | meterNumbers |
| If a request for the same meter already exists in a pending state (SUBMITTED, SENT, or PROCESSING), additional requests for that meter must be rejected. | 3257 | A request for meter No. *[{meterNumber}]* is already in progress. Wait until it is processed before submitting a new one. | meterNumbers |
| The NRT service of the meter cannot be disabled on the last day of the month from the time specified by the configuration parameter until midnight.<br>Default value: 22:00. | 3260 | The NRT service cannot be disabled on the last day of the month from [22:00] until the end of the day. | action |

#### 7.15.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| action | string | Y | Action requested for the NRT service. Possible values:<br>• ENABLE – activates the NRT service.<br>• DISABLE – deactivates the NRT service. |
| consentSign | boolean | Y | Indicates whether the submitted notification data is correct. Possible values:<br>• true – data is correct<br>• false – data is incorrect |
| meterNumbers | list of strings | Y | The meter numbers for which the NRT service should be activated or deactivated. |

#### 7.15.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| [] | array | | A list of generated notification objects. |
| notificationId | integer | Y | The unique identifier of the created notification. |

### 7.15.3 POST /gateway/notification/nrt/search

| | |
|---|---|
| **Endpoint** | POST /gateway/notification/nrt/search |
| **Description** | Returns a list of submitted NRT notifications filtered by the provided parameters. |
| **Parameter** | URL parameters: *first, count, sortOrder.* |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "notificationIds": [ integer ], "submittedDateFrom": "string", "submittedDateTo": "string", "meterNumbers": [ "string" ], "action": "string", "latestStatuses": [ "string" ], "userNameSearch": "string", "objectNumbers": [ |

| | |
|---|---|
| | "string"<br>]<br>} |
| **JSON response** | [<br>{<br>"notificationId": integer,<br>"action": "string",<br>"reason": "string",<br>"submittedDate": "string",<br>"meterNumber": "string",<br>"objectNumber": "string",<br>"latestStatus": "string",<br>"notificationStatuses": [<br>{<br>"status": "string",<br>"date": "string",<br>"result": "string"<br>}<br>],<br>"userName": "string"<br>}<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |
| **JSON request logic** | JSON request logic version 2 is applied. For examples and a detailed description, see the JSON Request Logic section. |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | submittedDateFrom<br>submittedDateTo |

| | | | |
|---|---|---|---|
| The attributes notificationIds, meterNumbers, and objectNumbers must not contain more than 500 values each. | 1004 | The number of values for the attribute notificationIds must not exceed [500]. | notificationIds |
| | | The number of values for the attribute meterNumbers must not exceed [500]. | meterNumbers |
| | | The number of values for the attribute objectNumbers must not exceed [500]. | objectNumbers |
| The value of the count parameter must be less or equal to 10000. | 1007 | The value of the count parameter must be less or equal to 10000. | count |
| Submitted date cannot be later than the current date but can be equal. | 1010 | Submitted date cannot be later than the current date. | submittedDateFrom<br>submittedDateTo |

#### 7.15.3.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| first *(query)* | integer | N | Index of the report line that should appear first in the returned list (starting from 0). The default value is 0. |
| count *(query)* | integer | N | Number of order rows in the returned list. The default value is 30. |
| sortOrder (*query*) | string | N | Sort by ascending or descending order: ASC / DESC. The default value is DESC. If "sortOrder" is not provided, the default value applies. |

#### 7.15.3.2 JSON request structure

The table below describes the structure of the JSON request:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| notificationIds | list of integers | N | Identifiers of NRT service notifications. |
| submittedDateFrom | string (dateTime) | N | NRT service request submission date from. |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| submittedDateTo | string (dateTime) | N | NRT service request submission date to. |
| meterNumbers | list of strings | N | Meter numbers in NRT requests. |
| action | string | N | The action initiated for the NRT service. Possible values:<br><br>• ENABLE - service activation.<br>• DISABLE - service deactivation.<br>• AUTO_DISABLE - automatic service deactivation.<br><br>AUTO_DISABLE indicates a system-initiated automatic deactivation of the NRT service for a meter.<br><br>This action is triggered when one of the following conditions occurs:<br><br>• The electricity supply contract ends, and the object (meter) is no longer associated with an independent supplier that uses the NRT service.<br>• A meter with an active NRT service is uninstalled from the object.<br>• The NRT service agreement is terminated, regardless of which party initiates the termination. |
| latestStatuses | list of strings | N | The latest recorded status of NRT service notifications. Possible values:<br><br>• SUBMITTED - the request has been submitted and is awaiting further processing.<br>• SENT - the request has been sent to the target system for execution. CANCELLED - the request has been cancelled and will not be processed.<br>• PROCESSING - the request execution has started in the target system.<br>• COMPLETED - the request has been successfully completed.<br>• FAILED - the request could not be completed due to an error. |
| userNameSearch | string | N | The system user who created the notification. Search is performed by a text fragment. |
| objectNumbers | list of strings | N | Object numbers in NRT requests. |

### 7.15.3.3 JSON response structure

The table below describes the structure of the JSON response:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId | integer | Y | NRT service notification identifier. |
| action | string | Y | The action initiated for the NRT service. Possible values:<br>• ENABLE - service activation.<br>• DISABLE - service deactivation.<br>• AUTO_DISABLE - automatic service deactivation. |
| reason | string | N | Reason for automatic NRT service deactivation (applicable only when action = AUTO_DISABLE). Possible values:<br>• SUPPLIER_CONTRACT_ENDED - the supplier contract has ended.<br>• METER_UNINSTALLED - the meter has been uninstalled.<br>• SERVICE_TERMINATED - the NRT service contract has been terminated. |
| submittedDate | string (dateTime) | Y | NRT service notification submission date. |
| meterNumber | string | Y | Meter number in the notification. |
| objectNumber | string | Y | The object number to which the meter belongs. |
| latestStatus | string | Y | The latest recorded status of NRT service notification. Possible values:<br>• SUBMITTED - the request has been submitted and is awaiting further processing.<br>• SENT - the request has been sent to the target system for execution. CANCELLED - the request has been cancelled and will not be processed.<br>• PROCESSING - the request execution has started in the target system.<br>• COMPLETED - the request has been successfully completed.<br>• FAILED - the request could not be completed due to an error. |
| notificationStatuses: [] | | | |
| status | string | Y | The status of NRT notification. Possible values: |

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| | | | • SUBMITTED - the request has been submitted and is awaiting further processing.<br>• SENT - the request has been sent to the target system for execution. CANCELLED - the request has been cancelled and will not be processed.<br>• PROCESSING - the request execution has started in the target system.<br>• COMPLETED - the request has been successfully completed.<br>• FAILED - the request could not be completed due to an error. |
| date | string (dateTime) | Y | Notification status date. |
| result | string | N | Additional status information (applicable only when status = FAILED). Possible values:<br><br>• CONNECTION_ERROR - an error occurred while connecting to the target system.<br>• METER_NOT_SMART - the meter is not a smart meter.<br>• METER_NOT_INSTALLED - the meter is not installed.<br>• METER_NOT_FOUND - the meter could not be found.<br>• METER_NOT_REMOTELY_READABLE - the meter does not support remote reading.<br>• INTERNAL_ERROR - an internal system error occurred. |
| userName | string | Y | The system user who created the notification record. |

### 7.15.4 POST /getaway/notification/{notificationId}/nrt/cancel

| | |
|---|---|
| **Endpoint** | POST /getaway/notification/{notificationId}/nrt/cancel |
| **Description** | Cancels a previously submitted NRT service activation or deactivation notification. |
| **Parameter** | URL parameters: *notificationId.* |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| The system returns an error if the requested record is not found. | 1030 | *[Notification]* record was not found. | notificationId |
| Cancellation is not allowed for notification with action *AUTO_DISABLE.* | 3261 | Cancellation is not allowed for notification with action AUTO_DISABLE. | |
| The request may be canceled only once, and cancellation is permitted only when the notification is in the SUBMITTED status. | 3258 | The action is not allowed when the notification status is [{status}]. A notification can only be canceled when its status is [{status}]. | |
| The request can be canceled only within the cancellation window (1 hour). | 3259 | Action not allowed: the cancellation period for this notification has expired. | |
| Upon successful cancellation of the notification, the request status is set to CANCELLED. | | | |

#### 7.15.4.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| notificationId *(path)* | integer | N | Identifier of the NRT service notification to be cancelled. |

## 7.16 KPI NRT controller

### 7.16.1 GET /gateway/kpi/nrt/quarterly

| | |
|---|---|
| **Endpoint** | GET /gateway/kpi/nrt/quarterly |
| **Description** | Retrieves calculated 15-minute interval KPI metrics for the NRT service. |
| **Parameter** | Query parameters: *dateFrom*, *dateTo*. |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>  {<br>  "readingEndTime": "string",<br>  "kpiStatus": "string",<br>  "kpiValuePercentage": number<br>  }<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| The period cannot be longer than 31 days. | 1032 | The query period cannot be longer than 31 days. Please choose a shorter period. | dateFrom, dateTo |
| It is not allowed to select a period older than 48 months from today. | 1036 | Date from cannot be older than 48 months. | dateFrom |

#### 7.16.1.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom (query) | string (date) | Y | Start date of the filtered period. Format: YYYY-MM-DD. |
| dateTo (query) | string (date) | Y | End date of the filtered period. Format: YYYY-MM-DD. |

#### 7.16.1.1 JSON response structure

The table below describes the structure of the JSON response:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| readingEndTime | string (dateTime) | Y | Date and time for which the KPI value is calculated. The date and time are provided in ISO 8601 format with a UTC offset (e.g., 2025-01-01T00:00:00+02:00). |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| kpiStatus | string | Y | KPI status. Possible values:<br><br>• APPLICABLE – KPI percentage has been calculated;<br>• NOT_APPLICABLE – KPI is not calculated. There are no meters with the NRT service enabled;<br>• DOWNTIME – data provision is suspended. |
| kpiValuePercentage | number | N | KPI value expressed as a percentage. The value is provided with up to 2 decimal places (e.g., 96.34). |

### 7.16.2 GET /gateway/kpi/nrt/daily

| | |
|---|---|
| **Endpoint** | GET /gateway/kpi/nrt/daily |
| **Description** | Retrieves calculated daily KPI metrics for the NRT service. |
| **Parameter** | Query parameters: *dateFrom*, *dateTo*. |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | |
| **JSON response** | [<br>  {<br>  "kpiDate": "string",<br>  "kpiStatus": "string",<br>  "kpiValuePercentage": number,<br>  "nrtServiceDowntimeTotalMinutes": number<br>  }<br>] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| From date must not exceed to date and they can be equal. | 1002 | Date from cannot be later than date to. | dateFrom, dateTo |
| Dates must not be later than the current date and may be equal to it. | 1008 | The date from and / or date to cannot be later than the current date. | dateFrom, dateTo |
| The period cannot be longer than 366 days. | 1032 | The query period cannot be longer than 366 days. Please choose a shorter period. | dateFrom, dateTo |
| It is not allowed to select a period older than 48 months from today. | 1036 | Date from cannot be older than 48 months. | dateFrom |

#### 7.16.2.1 Parameters

The table below describes the parameters:

| Attribute | Type | Mandatory | Description |
|---|---|---|---|
| dateFrom (query) | string (date) | Y | Start date of the filtered period. Format: YYYY-MM-DD. |
| dateTo (query) | string (date) | Y | End date of the filtered period. Format: YYYY-MM-DD. |

#### 7.16.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| kpiDate | string (date) | Y | Date for which the KPI value is calculated. Date format: YYYY-MM-DD. |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| kpiStatus | string | Y | KPI status. Possible values:<br><br>• APPLICABLE – KPI percentage has been calculated;<br>• NOT_APPLICABLE – KPI is not calculated. There are no meters with the NRT service enabled;<br>• DOWNTIME – data provision is suspended. |
| kpiValuePercentage | number | N | KPI value expressed as a percentage. The value is provided with up to 2 decimal places (e.g., 96.34). |
| nrtServiceDowntimeTotalMinutes | number | Y | Total duration in minutes during which NRT data provision was suspended within the specified period. |

## 7.17 Metric controller

This section provides an overview of available metrics and explains how to retrieve them using the Metrics API.

### 7.17.1 Metrics overview

#### 7.17.1.1 Metric Groups

Metric groups define how metrics are logically grouped.

| Group Name | Description |
|---|---|
| NRT_SERVICE | Metrics describing overall NRT service usage, including:<br><br>• number of active objects<br>• number of active meters |
| NRT_NOTIFICATION | Metrics related to NRT notifications and their processing details, including:<br><br>• activation and deactivation actions<br>• notification status and failure reasons |

#### 7.17.1.2 Metric List

The table below describes the available meters grouped by metric group.

**Group: NRT_SERVICE**

| Metric Name | Description |
|---|---|
| NRT_ACTIVE_OBJECTS_COUNT | Total number of unique objects with NRT service activated. |
| NRT_ACTIVE_METERS_COUNT | Total number of unique meters with NRT service activated. |
| NRT_NEWLY_ACTIVATED_METERS_COUNT | Total number of newly activated meters during the selected period. |

**Group: NRT_NOTIFICATION**

| Metric Name | Description |
|---|---|
| NRT_ENABLE_STATUS_COUNT | Total number of NRT notifications with activation action, grouped by notification status. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | Total number of NRT notifications with activation action, grouped by failure reasons. |
| NRT_DISABLE_STATUS_COUNT | Total number of NRT notifications with deactivation action, grouped by notification status. |
| NRT_AUTO_DISABLE_REASON_COUNT | Total number of NRT notifications with automatic deactivation action, grouped by reason. |
| NRT_AUTO_DISABLE_STATUS_COUNT | Total number of NRT notifications with automatic deactivation action, grouped by notification status. |

### 7.17.1.3 Dimension Values

Dimension values define how metric results are grouped into specific categories.

Each dimension corresponds to '*dimensionName'* field in the request, and the listed values represent possible '*dimensionValue*' values used to group metric results.

#### 7.17.1.3.1 Activation (NRT notification)

The tables below describe the NRT notification with activation action, grouped by status and reason.

**Status**

| Dimension Name | Dimension Value | Description |
|---|---|---|
| NRT_ENABLE_STATUS_COUNT | COMPLETED | Indicates that the NRT notification with activation action was successfully processed. |
| NRT_ENABLE_STATUS_COUNT | CANCELLED | Indicates that the NRT notification with activation action was cancelled. |
| NRT_ENABLE_STATUS_COUNT | FAILED | Indicates that the NRT notification with activation action failed. |

**Failure reasons**

| Dimension Name | Dimension Value | Description |
|---|---|---|
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | CONNECTION_ERROR | Indicates that the NRT notification with activation action failed due to a connection error. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | METER_NOT_SMART | Indicates that the NRT notification with activation action failed because the meter is not smart. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | METER_NOT_INSTALLED | Indicates that the NRT notification with activation action failed because the meter is not installed. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | METER_NOT_FOUND | Indicates that the NRT notification with activation action failed because the meter was not found. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | METER_NOT_REMOTELY_READABLE | Indicates that the NRT notification with activation action failed because the meter is not remotely readable. |
| NRT_ENABLE_STATUS_FAILED_REASON_COUNT | INTERNAL_ERROR | Indicates that the NRT notification with activation action failed due to an internal system error. |

#### 7.17.1.3.2 Deactivation (NRT notification)

The tables below describe the NRT notification with deactivation action, grouped by status.

**Status**

| Dimension Name | Dimension Value | Description |
|---|---|---|
| NRT_DISABLE_STATUS_COUNT | COMPLETED | Indicates that the NRT notification with deactivation action was successfully proceed. |
| NRT_DISABLE_STATUS_COUNT | CANCELLED | Indicates that the NRT notification with deactivation action was cancelled. |
| NRT_DISABLE_STATUS_COUNT | FAILED | Indicates that the NRT notification with deactivation action failed. |

#### 7.17.1.3.3 Auto deactivation (NRT notification)

The tables below describe NRT notifications with automatic deactivation action, grouped by status and reason.

**Status**

| Dimension Name | Dimension Value | Description |
|---|---|---|
| NRT_AUTO_DISABLE_STATUS_COUNT | COMPLETED | Indicates that the NRT notification with automatic deactivation action was successfully processed. |
| NRT_AUTO_DISABLE_STATUS_COUNT | FAILED | Indicates that the NRT notification with automatic deactivation action failed. |

**Reason**

| Dimension Name | Dimension Value | Description |
|---|---|---|
| NRT_AUTO_DISABLE_REASON_COUNT | SUPPLIER_CONTRACT_ENDED | Indicates that the NRT notification with automatic deactivation action was triggered due to supplier change or contract termination. |
| NRT_AUTO_DISABLE_REASON_COUNT | METER_UNINSTALLED | Indicates that the NRT notification with automatic deactivation action was triggered because the meter was uninstalled. |
| NRT_AUTO_DISABLE_REASON_COUNT | SERVICE_TERMINATED | Indicates that the NRT notification with automatic deactivation action was triggered due to service contract termination. |

### 7.17.2 POST /gateway/metrics/search

| | |
|---|---|
| **Endpoint** | POST /gateway/metrics/search |
| **Description** | Returns a list of metrics, filtered by the specified parameters. |
| **Parameter** | Query parameters: *first, count.* |
| **Header** | After decrypting the authentication key, the involved party ID is used to select the data. |
| **HTTP response code** | Standard HTTP response codes should be applied. The list of codes can be found at the following source: Standard HTTP response codes |
| **JSON request** | { "periods": [ "string" ], "groups": [ "string" ], "dimensionNames": [ "string" ], "includeZero": boolean } |
| **JSON response** | [ { "period": "string", "group": "string", "dimensionName": "string", "dimensionValue": "string", "metricValue": integer } ] |
| **JSON error response** | Example and description of JSON error response can be found at the following source: JSON error response |

The table below describes the rules:

| Rule description | Error code | Error message | Attributes |
|---|---|---|---|
| One or more request parameters are required. | 1001 | One or more request parameters are required. | periods, groups, dimensionNames |

#### 7.17.2.1 JSON request structure

The table below describes the structure of the JSON request:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| periods | list of strings (date) | N | Metric periods. Format: YYYY-MM. |
| groups | list of strings | N | Metric groups. Available metric groups are described in section Metric Groups. |
| dimensionNames | list of strings | N | A dimension that defines the classification of metrics. Available dimensions are described in section Metric List. |
| includeZero | boolean | N | A parameter indicating whether to include metrics with a value of 0. Possible values:<br>• true – include values equal to 0;<br>• false – exclude values equal to 0. |

#### 7.17.2.2 JSON response structure

The table below describes the structure of the JSON response:

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| period | string (date) | Y | Metric period. Format: YYYY-MM. |
| group | string | Y | Metric group. Available metric groups are described in section Metric Groups. |
| dimensionName | string | Y | A dimension that indicates the classification of metrics. Available dimensions are described in section Metric List. |

| Atributte | Type | Mandatory | Description |
|---|---|---|---|
| dimensionValue | string | N | A dimension indicating how it can be broken down into smaller units. Available dimension values are described in section Dimension Values. |
| metricValues | integer | Y | Calculated metric value. |