

Datahub Data Interface

29.3.2021



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Change log

Date	Version	Changes
24.02.2020	1.0	First version.
17.02.2021	1.0.1	Fixed small errors in the parameters
16.03.2021	1.0.2	Added known errors section
29.03.2021	1.0.2.1	Fixed typos in og rganisationUser parameter

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Definitions and abbreviations

A complete list of definitions and abbreviations can be found from document “Electricity retail marked business processes in Datahub”.

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1 Introduction

1.1 Purpose

This document contains interface descriptions concerning data service called Datahub Data Interface.

1.2 General

In addition to the SOAP interface, Datahub offers to the market parties a more flexible way to retrieve data belonging to them without the messages related to events. This interface is called the data interface.

This interface makes it possible to retrieve data from datahub for example directly to an online service offered to end customers. It is not possible to report data to datahub through data interface. Market parties can utilize the data interface also to compare the data in their own data systems to the data in the Datahub.

Market parties can choose if they want to use the data interface for the retrieval of information or not. Data interface can also be utilized when an external registered party (third party or other market party) develops and creates new services, for which the customer can give an authorization to their own information. A third-party service can be, for example, a mobile application that allows the end user to see its information for all accounting points regardless of which grid area they are located in or who sells electricity to them.

Parties rights to data are taken into account according to same rules both for data interface and message interface. A party can only retrieve information they are authorized based on a contract or authorized by customer.

The data interface is implemented as a so-called REST API and this document describes the resources, endpoints and methods of the interface.

1.3 Known errors

Process	Error	Workaround
DH-1002	Calling the resource without the optional {ResolutionDuration} parameter will cause a http 408 timeout error.	Provide the parameter {ResolutionDuration} in the call.

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2 General interface specifications

2.1 Communication

The data interface is REST based web service that utilizes HTTP protocol GET method.

The interface is using Client Certificates for the authentication.

The following table lists the mandatory attributes needed to open a connection to the interface.

Name	Type	Obligation	Value
Connection: Client Certificate	Certificate	Mandatory	The certificate provided by the client.
Connection: Protocol	String	Mandatory	HTTPS (TLS 1.2)
Connection: Port	String	Mandatory	443

2.2 Endpoint

The interface has only one endpoint that you call to invoke the desired function. The endpoint URL has the following structure:

```
https://{hostname}/rest/FGR/{function}?organisationUser={organisation
username}&filter01={filter01}&filter02={filter02}&...
```

2.2.1 Environments

Environment	Host
Vendor test environment 01	dh-fingrid-ven01-b2b.azurewebsites.net

2.3 Parameters

2.3.1 HTTP method and header parameters

Name	Type	Obligation	Value
HTTP: Method	String	Mandatory	GET
HTTP: Accept	String	Mandatory	application/json

2.3.2 Path parameters

Name	Type	Obligation	Value
{Function}	String	Mandatory	See Chapter 3 for list of available functions.

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2.3.3 Query string parameters

Name	Type	Obligation	Value
{organisationUser}	String	Mandatory	Specific per Organisation. Defines the registered b2b user in the Datahub created by Fingrid having specific UserRoles for B2B communication.
{Filters}	{Varies}	{Varies}	Where applicable, functions can have multiple ampersand separated filters. For example: customerIdentification=1234&meteringPointEAN=12345&ViewDate=2019-10-14T21:00:00Z. The proper filter to be applied depends on the function. See chapter 3 for details. Take care to provide the parameters with correct upper and lowercase letters (meteringPointEAN vs. MeteginrpointEAN). Using wrong case will cause (HTTP) 400 Bad Request – error.

2.4 Response Message

Only public data (Organisation details) or data where the Actor has an agreement (sales/grid/authorisation) for is returned. When the user provided parameters together with the data authorisation filters don't result in response data, an 'empty' response is returned instead of validation errors.

For empty attributes the Datahub won't send an empty element, but instead will not send the element.

Example JSON response message from Datahub:

```
{ "GetAccountinPointDataResponse": {
  "MeteringPoints": [{
    "MeteringPointEAN": "640102010000532598",
    "AccountingPointSubType": "AQ01"
  },
  {
    "MeteringPointEAN": "6401020100005902686",
    "AccountingPointSubType": "AQ02"
  }
]}
}
```

2.5 Data validity

All validations are against the current status of the data based on the ViewDate. For functions without ViewDate as input field the current datetime is used.

2.6 Function Authorization

Like all other functions the authorisation is based on SystemFunctions and UserRoles.

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2.7 Data Authorisation

For all data requests the Datahub will check if the actor does have the proper data authorisation for the data requested. The rules are defined per function. Access to data where the actor does not have an active (confirmed) agreement is not allowed unless explicitly indicated in the process.

In practise this means for example that, if a customer has agreements with/Authorisations for different parties he is not able to access all his data when customer is viewing data through the web portal of a certain market party.

Example:

User has sales agreements with 2 Suppliers (Supplier A and Supplier B) and Authorisation for Party C.

1. When logged into the portal of Supplier B, customer will not be able to see data for agreements linked to Supplier A
2. When logged into the portal of Party C, customer will only be able to see the Accounting Point and Customer Data where the Authorisation is given for.

The Data Interface only exposes his part of the data where the party has a confirmed agreement for. This can be either one of the following agreement types:

Code	Description
AP01	Energy reporting
AP02	Invitation to tender
AP03	Competitive bidding for an agreement as a service
AP04	Invitation to tender (no access to metering data)
AP05	Competitive bidding for an agreement as a service (no access to metering data)
11	Grid agreement
12	Sales agreement

2.8 Technical details

Data interface does not support wildcard searches.

Data interface is not language aware. It will expose the information as stored in the Datahub.

e.g. Domain codes are not translated but like the B2B interface communicated as Codes. For Numbers and Dates the default XML/JSON format is exposed

All times in the data interface are in UTC. eg "2019-05-14T12:30:00Z" is local Finnish time "2019-05-14T15:30:00"

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Data interface does not support delegations, i.e. that market party would delegate other market party to retrieve data on his behalf. However, if delegations would be needed following standard Datahub functionality can be used (same mechanism for B2B SOAP and GUI): *Ask market operator to add an extra B2B user for other party and to link OrganisationUser in your organisation to that other B2B user and to give that user the proper rights. This is same mechanism that can be used in B2B and GUI channel. For Datahub this is then a user of 'your' organisation.*

IDs based on the SI system are used as unit codes for values, e.g. kW, MW, kWh, MWh, kvar, Mvar, kvarh, Mvarh.

UUIDs (Universally Unique Identifiers) are used as message IDs.

Values for filters can be entered into the text-based data fields in upper and lower case. The retrieval does not differentiate between upper- and lower-case characters.

2.9 Generic Usage pattern

A typical implementation pattern of the Data Interfaces for the parties could be same setup as the Datahub Customer Access Portal is using:

Sequence	Process #	Description	Remark
1	DH-1005	Customer information	After login get the Customer information and the linked meta data of the Customer Agreements and Accounting Points. This list is starting point for access DH-1000/1001/1002/1003
2	DH-1000	Accounting point data	Get the Details of the Accounting Point
3a	DH-1001	Contract information	Show list of agreements the customer has/had for the Party whose portal he is using.
3b	DH-1003	Authorisation information	Show list of authorisations the customer has/had for the Party whose portal he is using.
3c	DH-1002	Time series data	Show the time series data for the customer. Preferably the Party caches the raw hourly/15minute values to limit the interaction with Datahub and forwards the aggregated data to the client.

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3 Resource descriptions

This chapter will describe Data Interface resources, input parameters and responses. Each resource (or interface) has its own table that contains information about the required parameters, performed validations and an example of the request path.

After the table describing the resource there is a class diagram presenting the data content of the request. A diagram presenting the content of the response follows the class diagram. The purpose of the class diagrams is only to present the information provided by the resource; they are not meant to exactly match the structure of the response.

3.1 DH-1000 Get Accounting Point Data

Resource description			
Definition	Interface for requesting accounting point data		
Path parameters			
{function}	GetAccountingPointData		
Query string parameters			
Name	Type	Obligation	Note
{MeteringPointEAN}	String(18)	Mandatory	
{CustomerIdentification}	String(50)	Mandatory	
{ViewDate}	DateTime	Mandatory	For terminated contracts use the ContractEndDate. For confirmed contracts use CurrentDateTime
Validation rules			
The requesting party must have a valid agreement (sales/grid agreement or authorisation agreement) with the customer on the view date.			
Response			
Account point information			
Request example			
https://{hostname}/rest/FGR/GetAccountingPointData?organisationUser={OrganisationUser}&meteringPointEAN={MeteringPointEAN}&customerIdentification={CustomerIdentification}&ViewDate={ViewDate}			

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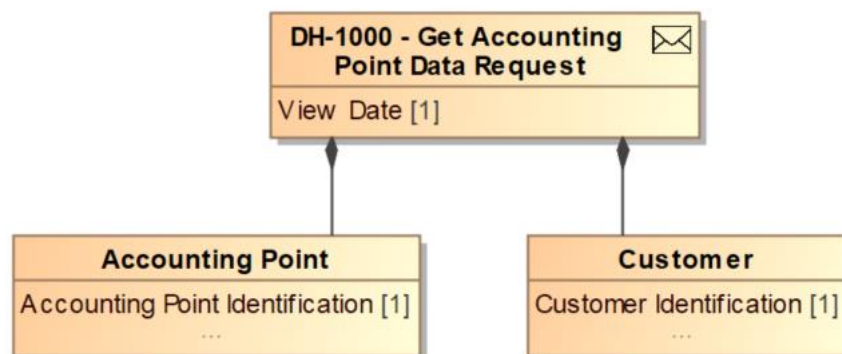
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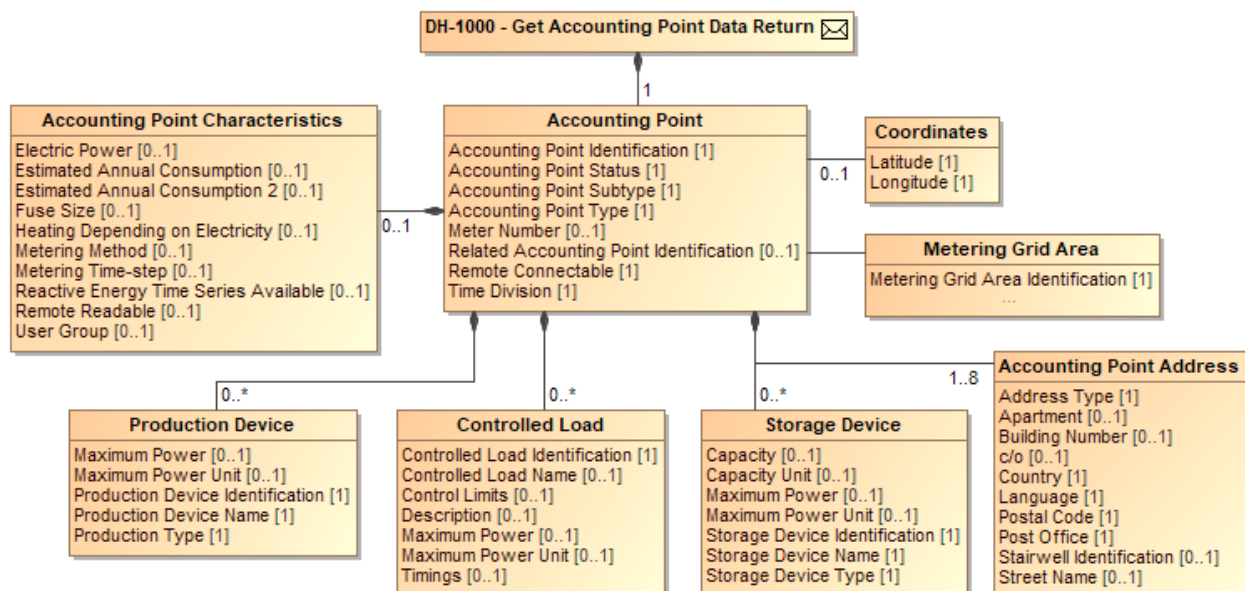
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CLASS DIAGRAM 1 INPUT FILTERS FOR ACCOUNTING POINT DATA REQUEST



CLASS DIAGRAM 2 ACCOUNTING POINT DATA RETURNED

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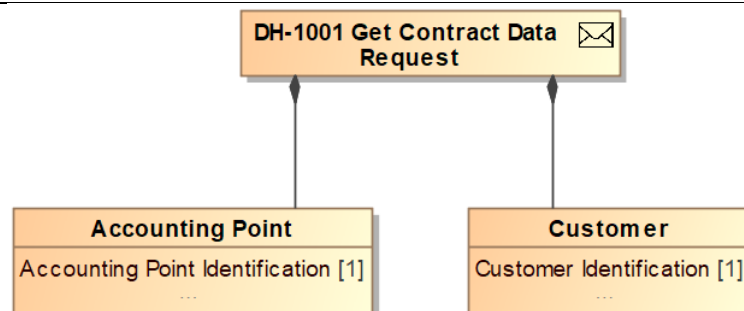
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3.2 DH-1001 Get Contract Data

Resource description			
Definition		Interface for requesting contract data	
Path parameters			
{function}		GetContractData	
Query string parameters			
Name	Type	Obligation	Note
{MeteringPointEAN}	String(18)	Mandatory	
{CustomerIdentification}	String(50)	Mandatory	
Validation rules			
The requesting party must have a valid agreement (sales or grid agreement) with the customer at the time of request. Also, agreements starting in the future and agreements that have ended up to 6 weeks before the time of request are returned.			
Response			
Contract data valid at the time of request.			
Request example			
https://{hostname}/rest/FGR/GetContractData?organisationUser={OrganisationUser}&meteringPointEAN={MeteringPointEAN}&customerIdentification={CustomerIdentification}			



CLASS DIAGRAM 3 INPUT PARAMETERS FOR CONTRACT DATA REQUEST

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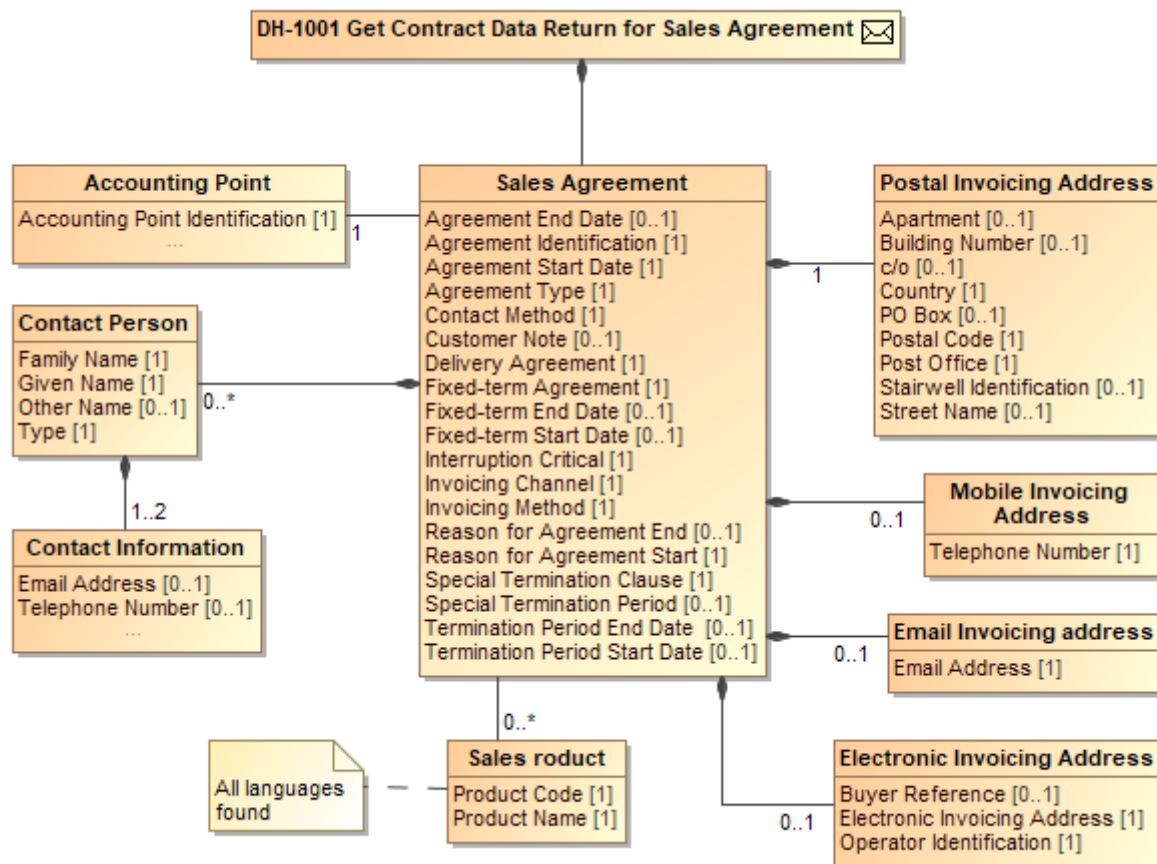
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CLASS DIAGRAM 4 AGREEMENT DATA RETURNED FOR SALES AGREEMENTS

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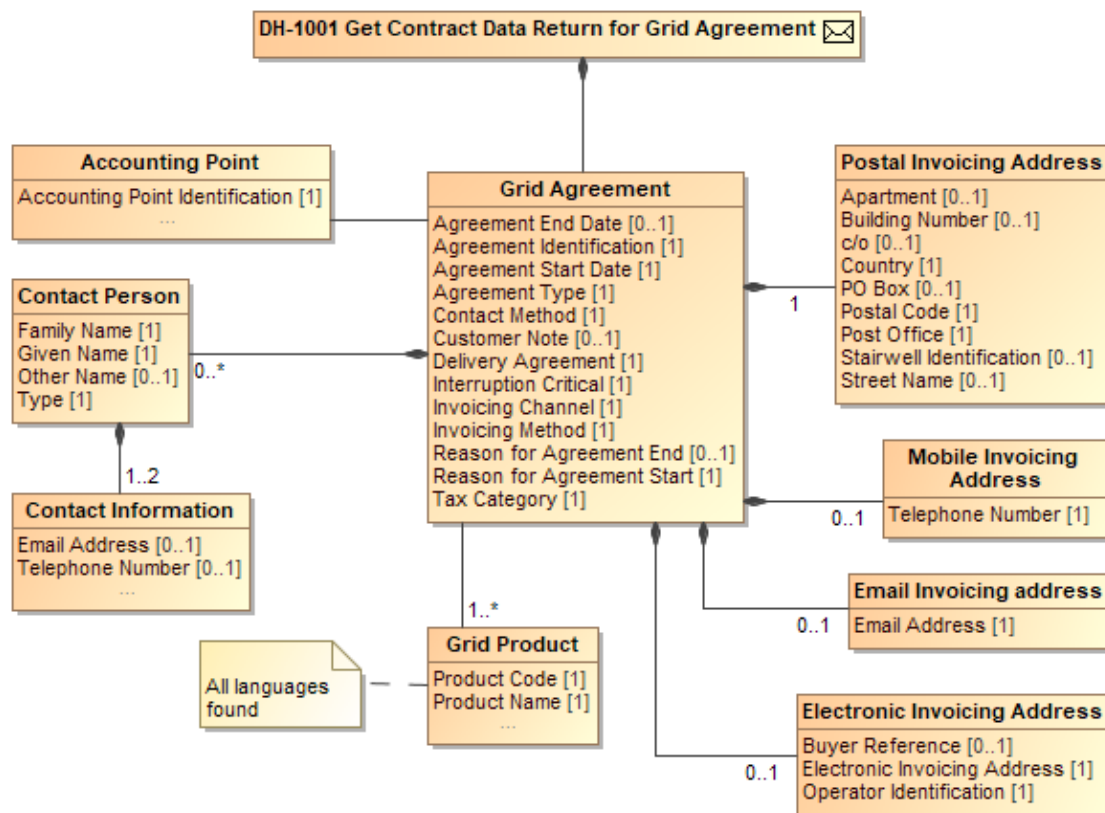
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CLASS DIAGRAM 5 AGREEMENT DATA RETURNED FOR GRID AGREEMENTS

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3.3 DH-1002 Get Time Series Data

Resource description			
Definition	Interface for requesting meter data of selected accounting point.		
Path parameters			
{function}	GetTimeSeriesData		
Query string parameters			
Name	Type	Obligation	Note
{MeteringPointEAN}	String(18)	Mandatory	
{CustomerIdentification}	String(50)	Mandatory	
{PeriodStartTS}	Timestamp	Mandatory	Start of timeseries
{PeriodEndTS}	Timestamp	Mandatory	End of timeseries
{ResolutionDuration}	String(25)	Optional	<ul style="list-style-type: none">If not provided the data is returned in the resolution as it is stored.If the provided resolution is lower than stored, then no data is returned.If the provided resolution is higher than stored, then the Datahub will sum up the data
{ProductType}	Text(25)	Optional	8716867000030=Active energy 8716867000047=Reactive energy (all)
Validation rules			
The requesting party should have a valid agreement (sales, grid or authorisation agreement) with the customer for the full data period (start time -> end time) of the request. Data outside the agreement period is not returned.			
Response			
Meter data of the selected time period for the selected accounting point according to the selected time step. Also, reactive energy is returned if these measurements are available for the accounting point. (Note: Missing meter data values within the requested period will result in gaps in the timeline).			
If Time Series Type is not given in request, then both active and reactive energy time series are returned.			
For the time step input parameter following rules apply:			
<ul style="list-style-type: none">If not provided the data is returned in the resolution as it is stored.If the provided resolution is lower than stored, then no data is returned.If the provided resolution is higher than stored, then the Datahub will sum up the data			
Request example			
https://{hostname}/rest/FGR/GetTimeSeriesData?organisationUser={OrganisationUser}&meteringPointEAN={MeteringPointEAN}&customerIdentification={CustomerIdentification}&periodStartTS={PeriodStartTS}&periodEndTS={PeriodEndTS}&resolutionDuration={ResolutionDuration}&productType={ProductType}			

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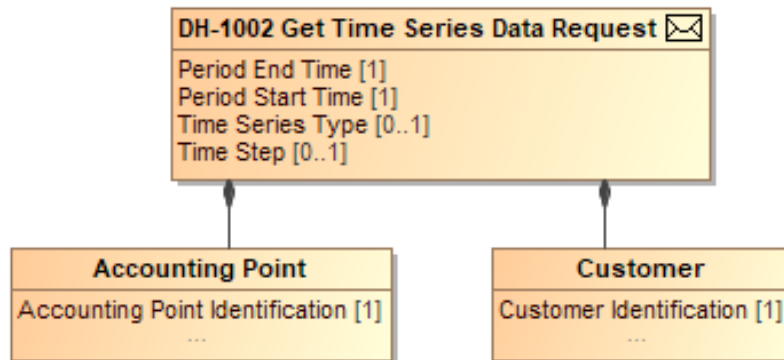
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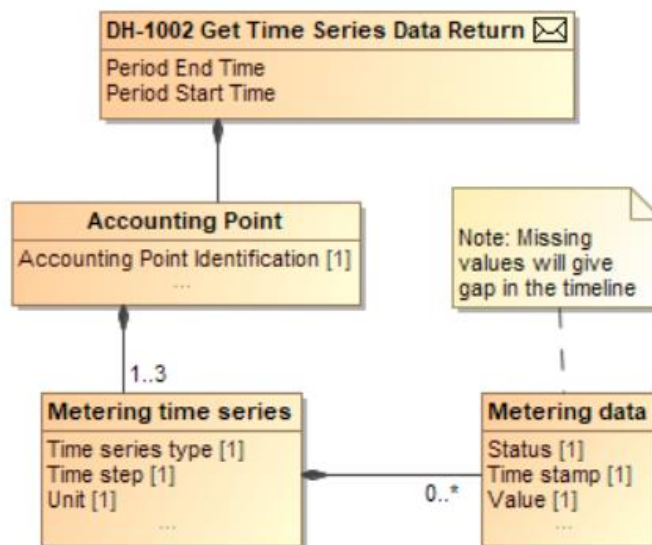
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CLASS DIAGRAM 6 INPUT PARAMETERS FOR TIME SERIES (METER) DATA REQUEST



CLASS DIAGRAM 7 METER DATA RETURNED

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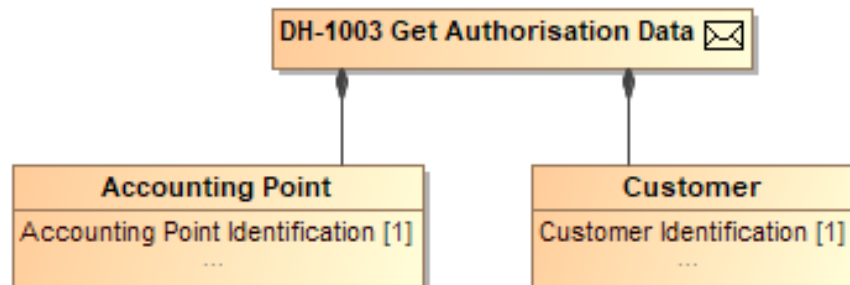
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3.4 DH-1003 Get Authorisation Data

Resource description			
Definition	Interface for requesting auhtorisation data.		
Path parameters			
{function}	GetAuthorisationData		
Query string parameters			
Name	Type	Obligation	Note
{MeteringPointEAN}	String(18)	Mandatory	
{CustomerIdentification}	String(50)	Mandatory	
Validation rules			
The requesting party must have a valid authorisation with the customer at the time of request.			
Response			
Authorisation data valid at the time of request.			
Request example			
https://{hostname}/rest/FGR/GetAuthorisationData?organisationUser={OrganisationUser}&meteringPointEAN={MeteringPointEAN}&customerIdentification={CustomerIdentification}			



CLASS DIAGRAM 8 INPUT PARAMETERS FOR AUTHORISATION DATA REQUEST

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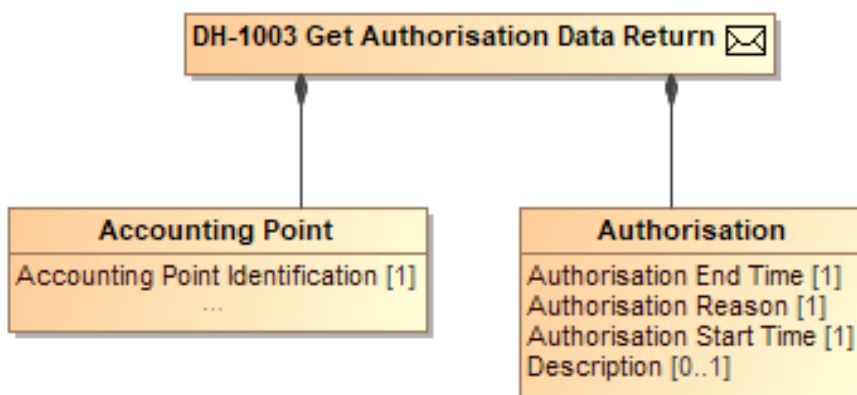
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CLASS DIAGRAM 9 AUTHORISATION DATA RETURNED

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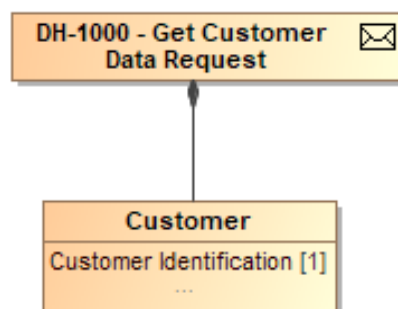
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3.5 DH-1005 Get Customer Data

Resource description			
Definition		Interface for requesting customer data.	
Path parameters			
{function}		GetCustomerData	
Query string parameters			
Name	Type	Obligation	Note
{CustomerIdentification}	String(50)	Mandatory	
Validation rules			
The requesting party must have a valid agreement or authorisation with the customer at the time of request. Also, agreements starting in the future and agreements that have ended up to 6 weeks before the time of request are returned.			
Response			
Customer data, list of customer's agreements and metering point identification and address which are valid at the time of request.			
Request example			
https://{hostname}/rest/FGR/GetCustomerData?organisationUser={OrganisationUser}&customerIdentification={CustomerIdentification}			



CLASS DIAGRAM 10 INPUT PARAMETERS FOR CUSTOMER DATA REQUEST

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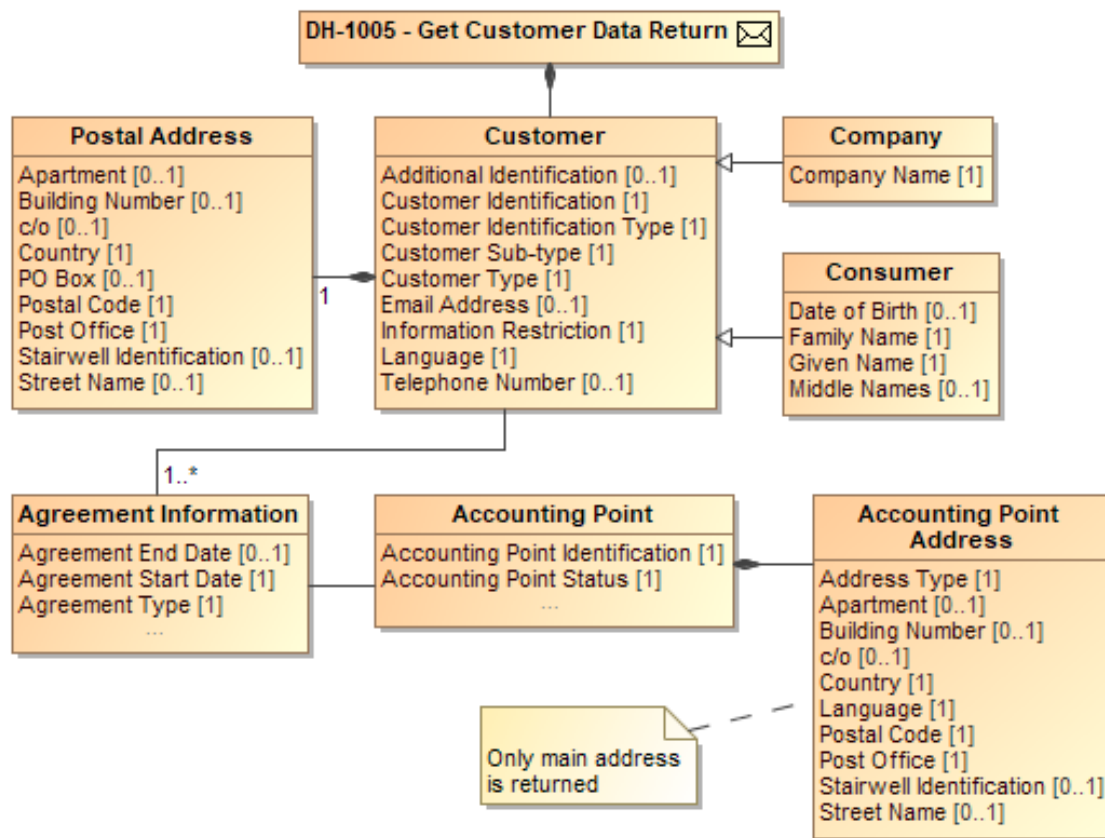
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CLASS DIAGRAM 11 CUSTOMER DATA RETURNED

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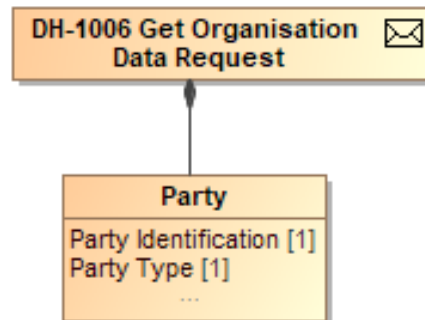
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3.6 DH-1006 Get Organisation Data

Resource description			
Definition		Interface for requesting organization (market party) data.	
Path parameters			
{function}		GetOrganisationData	
Query string parameters			
Name	Type	Obligation	Note
{OrganisationID}	String	Optional	
{MarketRole}	String	Optional	
Validation rules			
No validation			
Response			
Organisation data valid at the time of request. If no input parameters are given, data if all organisations are returned.			
Request example			
https://{hostname}/rest/FGR/GetOrganisationData?organisationUser={OrganisationUser}&organisationID={OrganisationID}&marketRole={MarketRole}			



CLASS DIAGRAM 12 INPUT PARAMETERS FOR ORGANISATION DATA REQUEST

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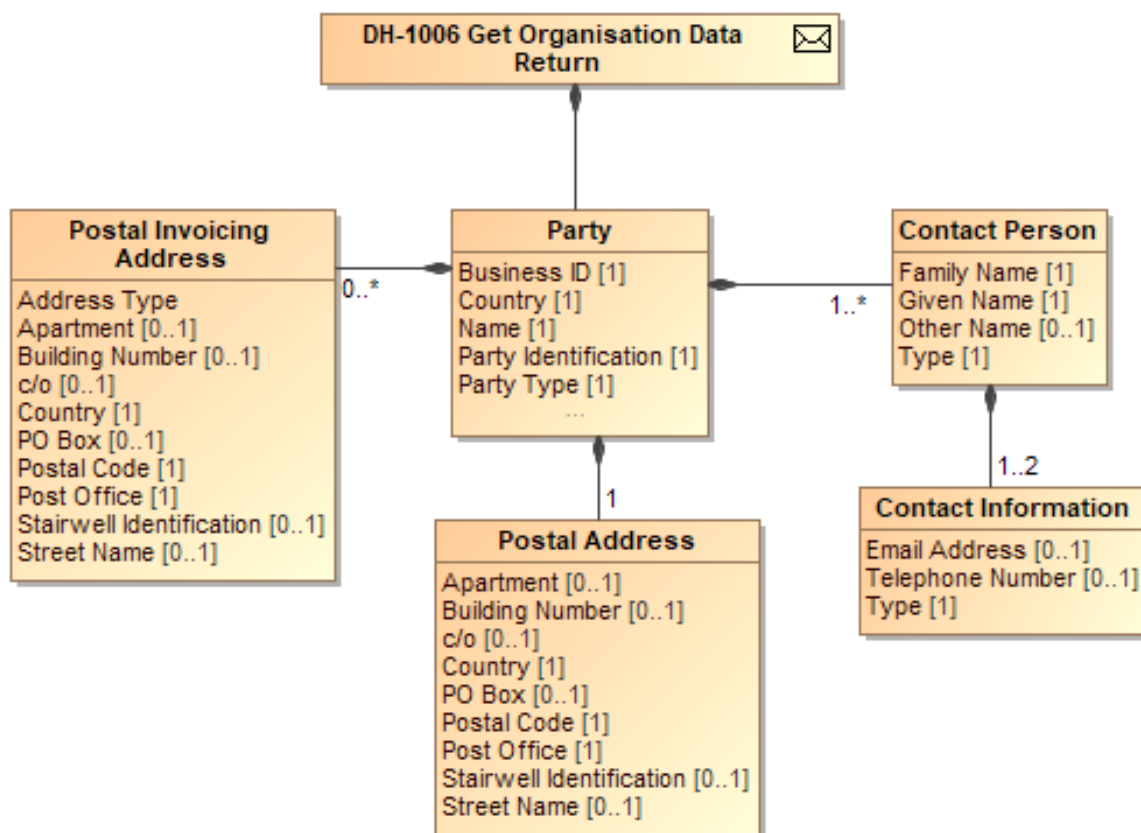
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CLASS DIAGRAM 13 ORGANISATION DATA RETURNED

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Customer identification type	AA01=Business ID AA03=Personal identity number AA04=Party's own identification
Customer type	AB01=Company AB02=Consumer
Contact method	AC01=Electronic AC02=Other
Contact information, type	AD01=Telephone AD02=E-mail
Accounting Point Status	AE01=Connected AE02=Disconnected AE03=Under construction AE04=Removed from use AE05=Deleted
Accounting point address type	AF01=Main address AF02=Additional address
Accounting point type	AG01=Consumption AG02=Production
Invoicing method	AH01=Separate invoicing AH02=Grid invoices both AH03=Supplier invoices both
Invoicing channel	AI01=Paper invoice AI02=Electronic invoicing AI03=E-Invoice AI04=E-mail AI05=Netposti AI06=Direct debit AI07=Mobile invoice AI08=Other invoicing channel
Supply agreement with the customer	AJ01=Agreement with the customer AJ02=Agreement partially with the customer AJ03=No agreement with the customer
Grid agreement with the customer	AK01=Agreement with the customer AK02=Agreement partially with the customer AK03=No agreement with the customer
Type of contact person	AL01=Trustee AL02=Responsible for agreements AL03=Responsible for invoicing AL04=Responsible for connections AL05=Fault communication
Other invoicing address, type	AM01=E-mail invoice address AM02=Mobile invoice address

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Street address

Postal address

Phone

Fax

Business Identity Code

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Reason for ending agreement	AN01=Moving out AN02=Termination AN03=Dissolving AN04=Meter removal
Language	Subset of ISO 639-1 standard containing only Finnish, English and Swedish.
Country	See ISO 3166-1 alpha-2
Connection status	AO01=Connection request or connection AO02=Disconnection request or disconnection
Authorisation reason/purpose	AP01=Energy reporting (with access to metering data) AP02=Invitation to tender (with access to metering data) AP03=Competitive bidding for an agreement as a service (with access to metering data) AP04=Invitation to Tender (no access to metering data) AP05=Competitive bidding for an agreement as a service (no access to metering data)
Accounting point sub-type	AQ01=Normal AQ02=Building accounting point AQ03=Production unit's own consumption
Reason for cancelling agreement	AR01=Agreement cancelled by customer AR02=Agreement cancelled by supplier AR03=Agreement cancelled by DSO AR04 = Agreement (but not the move in) cancelled by customer
Party type	AS01=Supplier AS02=DSO AS03=Third party
Reason for starting agreement	AT01=Switching agreements AT02=Switching suppliers AT03=Moving in
Balance deviation type	AU01=Accounting point AU02=Loss
Production type	AV01=Water power AV02=Wind power AV03=Nuclear power AV04=Gas turbine AV05=Diesel power AV06=Solar power AV07=Wave power AV08=Combined production AV09=Biopower AV10=Other production
Organization status	AW01=New AW02=Active AW03=Inactive
Acknowledgement type	BA01=Message accepted BA02=Message rejected BA03=Partially accepted

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Message package	BB01=Structural data BB02=Metering data (DH-211 and DH-212) BB03=Invoicing information BB04=Settlement Data (DH-500) BB05=Balance Deviation Data (DH-600) BB06=Metering Data (DH-22x)
Balance settlement type	BD01=Small-scale production BD02=Imbalance BD03=Exchange point sum BD04=Total exchange point sum BD05=Production unit's production BD06=Own consumption BD07=Losses BD08=Sum delivery
User group	BE01=Apartments, apartment block BE02=Apartments, small building (terraced, semi-detached and detached house), electrically heated BE03=Apartments, small building (terraced, semi-detached and detached house), not electrically heated BE04=Apartments, holiday home BE05=Residential properties BE06=Agricultural production (NACE A) BE07=Industry (NACE B and C) BE08=Infrastructure or energy and water supply (NACE D, E) BE09=Construction (temporary electricity supply) (NACE F) BE10=Services BE11=Outdoor lighting BE12=Charging points for electric vehicles BE13=Traffic BE14=Other
Customer sub-type	BF01=Normal BF02=Estate of a deceased person BF03=Company estate
Storage device type	BH01=Electric battery (stationary) BH02=Electric car battery BH03=Power 2 gas BH04=Pumped hydroelectric energy storage BH05=Compressed air storage BH06=Hydrogen storage BH07=Flywheel BH08=Other storage device

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Balance settlement type	BI01=Consumption profiled BI02=Consumption non-profiled BI03=Production Unit's Own Consumption profiled BI04=Production Unit's Own Consumption non-profiled BI05=Small Scale Production BI06=Production Unit BI07=MGA Losses BI08=MGA Negative Losses BI09=MGA Imbalance (from eSett) BI10=MGA Consumption profiled BI11=MGA Consumption non-profiled BI12=MGA Production Unit's Own Consumption profiled BI13=MGA Production Unit's Own Consumption non-profiled BI14=MGA Small Scale Production BI15=MGA Total Small Scale Production BI16=Production Unit BI17=Production Unit Total BI18=MGA Exchange Sum BI19=MGA Total Exchange Sum BI20=MGA Exchange confirmation (from eSett)
Invoicing address type	BJ01=Balance information corrections BJ02=Combined invoices BJ03=Connection and disconnection invoices
Party contact person type	BK01=Contract contact person BK02=Invoicing contact person BK03=Meter data contact person BK04=Balance deviation contact person BK05=Debt collection contact person
Reason for deviation	BL01 = Metered data correction BL02 = Supplier change BL03 = Both
Time division	E10=Estimated annual consumption 2 E11=Estimated annual consumption 1
Metering method	E13=Continuous metering E14=Reading metering E16=Unmetered
Metering grid area type	Z01=Regional Z03=Industrial Z04=Distribution Z05=Non-concessional Z06=Production Z07=Transmission (main/central grid)

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Price Unit identification	<p>MON=eur/month</p> <p>ANN=eur/year</p> <p>KWH=eur/kWh</p> <p>MWH=eur/MWh</p> <p>GWH=eur/GWh</p> <p>D32=eur/TWh</p> <p>KWT=eur/kW</p> <p>MAW=eur/MW</p> <p>KVR=eur/kvar</p> <p>MAR=eur/Mvar</p> <p>EA=eur/pcs</p> <p>HUR=eur/hour</p> <p>NM3=eur/m³</p> <p>MQH=eur/m³/hour</p> <p>KWT=eur/kW</p> <p>MAW=eur/MW</p> <p>NM3=eur/m³</p> <p>ZZ=no code</p>
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