

## Datahub Control Reports\_2.0

22.2.2023



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### Fingrid Datahub Oy

Street address

Postal address

Phone

Fax

Business Identity Code

Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
[www.fingrid.fi](http://www.fingrid.fi)

## 1 Introduction

### 1.1 Purpose

Datahub Portal provides preconfigured Control Reports which are scheduled via the GUI to be executed. The results can be downloaded in the proper output format and language.

This document describes the basic functionalities, source and content of Control Reports.

### 1.2 Glossary

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

Abbreviation	Description
MOP	Market Operator
DHB	Datahub
RPT	Report
SCR	Schedule Control Report
CMD-MHB	Contract Master Data – Message Hub domains
MDM-SMT	Meter Data Management – Settlement Data domains

### 1.3 Control Reports

In the following table there is listed Control Reports and parties authorized to those ("X" means authorised):

#	CMD-MHB / MDM-SMT	Report Title	Grid operator (DSO)	Supplier (DDQ)	Third Party (THP)	Authorities (AUT)
013a	CMD-MHB	Metering point data	Based on agreements	Based on agreements	Based on agreements	All data
013b	CMD-MHB	Customer data	Based on agreements	Based on agreements	Based on agreements	All data
013c	CMD-MHB	Agreement data	Based on agreements	Based on agreements	X	All data
013d	CMD-MHB	Authorisation data	Based on agreements	Based on agreements	Based on agreements	X
013e	CMD-MHB	Invoicing data	sender or receiver	sender or receiver	X	X
40	CMD-MHB	Reporting on consumer's own data	X	X	X	X

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Fax

Business Identity Code

Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

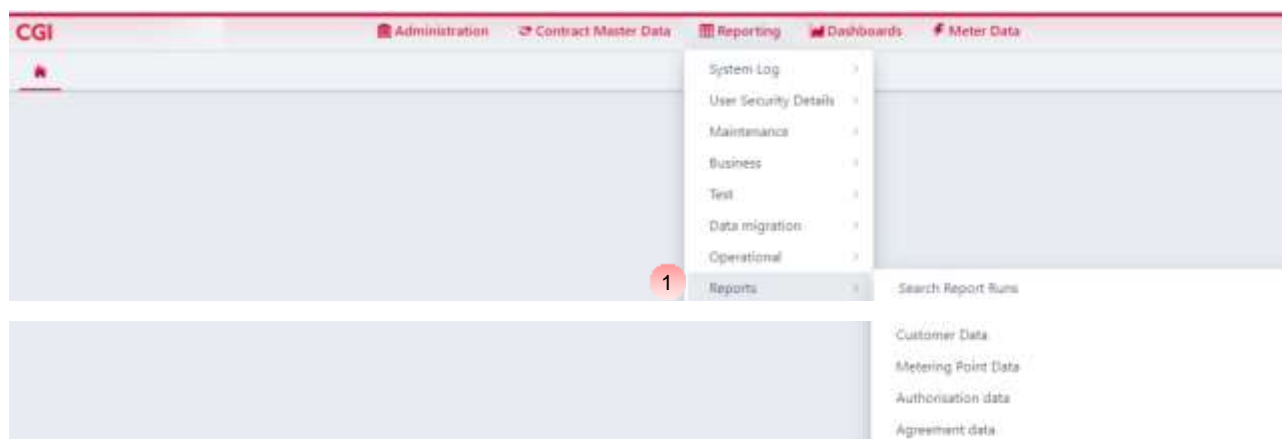
+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
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46	CMD-MHB	Balance data validity report to the supplier	X	Based on agreements	X	X
58	CMD-MHB	Structural data for imbalance settlement	Based on rights or agreements	Based on rights or agreements	X	X
ELA	CMD-MHB	Invoicing data from CMS to ELA	X	X	X	X
STA.M SD	CMD-MHB	Master Data for Statistics Finland	X	X	X	All data
OLBC	CMD-MHB	Overlapping Balance Agreements	X	X	X	X
ECO	CMD-MHB	Energy Community Ownership	Responsible DSO	X	X	X
023b	MDM-SMT	Report on metering data statuses (free interval)	Own Accounting Points	X	X	X
55	MDM-SMT	List of accounting points where consumption quota is exceeded	X	X	X	X
60	MDM-SMT	Time series data for selected imbalance time series	Own Accounting Points	Based on agreements	X	X
62	MDM-SMT	Metering information/Change history	Own Accounting Points	X	X	X
BLK.00 1	MDM-SMT	Delta Balance Settlement Connection report for Consumption Accounting Points	X	X	X	X
BLK.00 2	MDM-SMT	Delta report for Virtual Production Units	X	X	X	X
013f	MDM-SMT	Time Series Data for Metering Points	Own Metering Points	Own Metering Points	X	X
HTS	MDM-SMT	Hidden Time Series for Metering Point	X	X	X	X
STA.M TD	MDM-SMT	Metered Data for Statistics Finland	X	X	X	All data
MTD.N RP	MDM-SMT	Report on metered data -not reported time series	X	X	X	X

## 1.4 Control Report execution, example

- Control report runs are executed by choosing the desired report in GUI via Reporting / Reports (e.g. Customer Data)



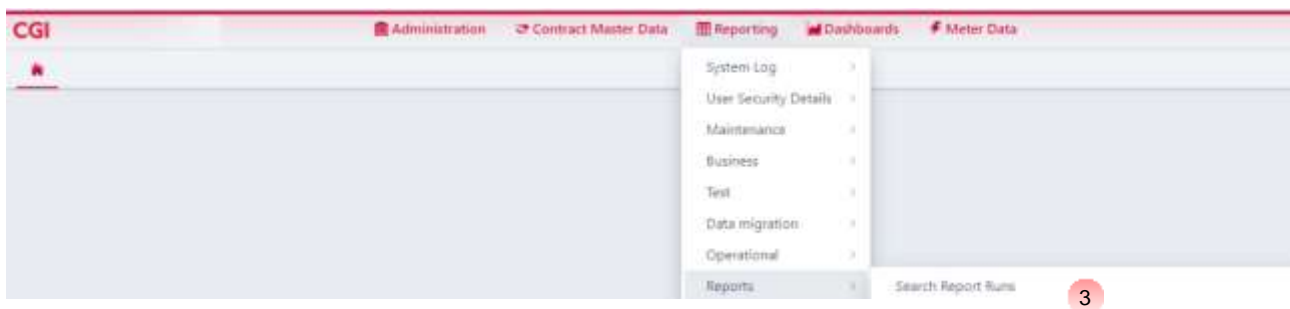
### Fingrid Datahub Oy

Street address	Postal address	Phone	Fax	Business Identity Code
Läkkisepäntie 21	P.O.Box 530	+358 30 395 5000	+358 30 395 5196	FI27455435, VAT reg
FI-00620 HELSINKI	FI-00101 HELSINKI			forename.surname@fingrid.fi
				<a href="http://www.fingrid.fi">www.fingrid.fi</a>

- 2) As the mandatory input values are filled in, the report is activated with "Submit" -button.



- 3) The report CSV-files are downloadable via Reporting / Reports / Search Report Runs



- 4) The CSV report can be found by clicking "Search" -button

- 5) As the status is "Ready", the CSV-report will be available by clicking  -button

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Fax

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FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
[www.fingrid.fi](http://www.fingrid.fi)

Search Report Runs

Search Results

Report Run Identifier: Report Name: Report Reference: Requesting User Name: Requesting Organisation: Report Period Start: Report Period End:

Report Run Identifier: Report Name: Report Reference: Requesting User Name: Requesting Organisation: Report Period Start: Report Period End:

Clear Search

Search Results

Report Run Identifier	Report Name	Report Reference	Report Date/Time	Status	Requesting Organisation
00520e74-42a1-4d33-b7b8-009e493a1d4	CustomerControlReport		2023-02-06 12:59	Ready	Fingrid Datahub Oy (5430076050014-MOY)

6) By clicking -button, the zip-file will be available for the download


CGI Administration Contract Master Data Reporting Dashboards Meter Data

Search Report Runs Search Results View Report Run

Total Duration (HH:mm:ss)

00:00:16

Report Results

File Name	Conversion Format	Language	File Size (Bytes)
 CustomerControl_en_csv_2023-02-06_105923_531Z_640.zip	CSV	en	416

CustomerControl\_e....zip

## 2 Control Reports CMD

### 2.1 Generic description of control reports

#### Generic Layout of the Control Reports:

- Control reports are created in CSV format
- Each line is ended with a CR/LF
- Reports have the following Filename: <ReportName>\_<CreatedTimestamp>.<format>
- Control Reports are delivered in compressed (zip) format to optimize storage and data transfer times. Each report will have one zip file.
- Control Reports have column names in the first row

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Läkkisepäntie 21	P.O.Box 530			FI27455435, VAT reg
FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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- Each row in the Control Report Output section (column with name Attributes) is a column in the file

#### Layout for Structure Data:

- Delimiter character is a pipe: |
- Escape character for a pipe character in the text is a backslash: \
- Control Reports can be requested in either English or Finnish language.

#### Requesting Reports:

Reports can be either run directly or on an (optional) time that the requesting user can set.

Each Group of reports (the chapters below) has one screen for requesting the set of data to allow requesting data for an entity group through one user action.

After requesting a report to be run there will be one or more reports scheduled. If there are 1..n relations there will be one schedule per entity created, else one schedule is created. Each schedule will result in one file. Based on the bitemporal data model in Datahub the Datahub will ensure the data is consistent between the reports.

#### Data Source (bitemporal) consistently:

A user can have a complete correlating data set by setting the same Scheduled Timestamp for the different Control reports. Using the bitemporal data model in CMD these will result in a dataset based on the same point in time.

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Läkkisepäntie 21 FI-00620 HELSINKI	P.O.Box 530 FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	FI27455435, VAT reg forename.surname@fingrid.fi <a href="http://www.fingrid.fi">www.fingrid.fi</a>

## 2.1.1 DHB.RPT.013 (Comparison report on party-specific and own system data)

There are multiple domains for the control reports:

1. Accounting point data
2. Customer data
3. Agreement data (including the supplier's balance data)
4. Authorisation data

The different entity groups are scheduled separately.

The next sections describe the different groups on structure data.

### 2.1.1.1 DHB.RPT.013a (Metering point data)

#### Applied data authorisation

Market Role	Remark
AUT	AUT can export all data
DSO	<p>GridOperator can export all data for which it has one of the following <u>Confirmed ('CFD')</u> agreement types:</p> <ul style="list-style-type: none"> <li>- 11 Grid agreement</li> <li>- DSO DSO owning agreement</li> <li>- ISO DSO infeed agreement</li> <li>- OSO DSO outfeed agreement</li> <li>- PDS Previous DSO agreement</li> <li>- PGR Pre-grid agreement</li> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>
DDQ	<p>Supplier can export all data for which it has one of the following <u>Confirmed ('CFD')</u> agreement types:</p> <ul style="list-style-type: none"> <li>- 12 Sales agreement</li> <li>- PSL Pre-sales agreement</li> <li>- LVG Leaving agreement</li> <li>- SUP Supplier agreement (for (virtual) production units)</li> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>

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FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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Market Role	Remark
THP	<p>Third Party can export all data for which it has one of the following <u>Confirmed ('CFD')</u> agreement types</p> <ul style="list-style-type: none"> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>

## Report Data source

Entity	FILTER
METERING_POINTS	-
METERING_POINT_ADDRESSES	-
METERING_POINT_DEVICES	-
ESTIMATED_ANNUAL_USAGES	-
MPT_MPT_RELATIONS	-
ENERGY_COMMUNITIES	-

## Schedule parameters

Filter	Type	Description
Organisation	User selectable (optional)	Dropdown for MOP. Prefilled for other parties
GridArea	User selectable (optional)	Supplier/MOP: Full list of GridAreas GridOperator: Only GridAreas where DSO is responsible for
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

Three reports are created. Each report will generate a CSV file based on exact same bitemporal view on the data. The reports are:

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Läkkisepäntie 21	P.O.Box 530			FI27455435, VAT reg
FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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- MPT\_CRL\_REP
- MPA\_CRL\_REP
- MPD\_CRL\_REP

## CSV

### MPT\_CRL\_REP

Contains MeteringPoints, Estimated Annual Usage and Relation to other MeteringPoint

Attribute	Remark
MPT.MeteringPointEAN	'translate' to GSRN
<i>Generic attributes that apply to all/multiple Metering Points</i>	
MPT.MeteringPointStatus	
MPT.MeteringPointType	
MPT.MeteringGridAreaCode	
MPT.MeteringTimeStep	
MPT.ElectricPower	
<i>Specific attributes that only apply to Accounting Points (ACP)</i>	
MPT.AccountingPointType	
MPT.AccountingPointSubtype	
MPT.ProductionType	
MPT.Latitude	
MPT.Longitude	
MPT.MeterNumber	
MPT.MeteringMethod	
MPT.FuseSize	
MPT.UserGroup	
MPT.IsRemotelyConnectable	
MPT.IsRemotelyReadable	
MPT.IsHeatingDependentOnElectricity	
MPT.MeteringTimeDivision	
MPT.IsReactiveEnergyTimeSeriesAvailable	
MPT.IsNettingApplied	
MPT.EnergyCommunityIdentifier	
ECY.EnergyCommunityName	ECY.EnergyCommunityIdentifier = MPT.EnergyCommunityIdentifier
<i>Specific attributes that only apply to Exchange Points (EXP)</i>	
MPT.InGridAreaCode	
MPT.OutGridAreaCode	
MPT.FieldIdentification	

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Business Identity Code

Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
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Attribute	Remark
MPT.StationIdentification	
MPT.StationName	
MPT.DirectionOfTransfer	
Specific attributes that only apply to Production Units (PRU) and Virtual Production Units (VPU)	
MPT.ProductionUnitName	
MPT.ProductionUnitType	
MPT.ProductionUnitClass	
Related MeteringPoint (Only one related meteringpoints at max)	
MPT.RelatedMeteringPointEAN	'translate' to GSRN
Estimated Annual Usage	
EYU.EstimatedYearlyUsage1	
EYU.EstimatedYearlyUsage2	

## MPA\_CRT\_REP

Contains the MeteringPoint Addresses

Attribute	Remark
MeteringPointEAN	'translate' to GSRN
AddressType	
StreetName	
BuildingNumber	
StairwellIdentification	
Apartment	
PostalCode	
PostOffice	
CountryCode	
AddressNote	
Language	

## MPD\_CRT\_REP

Contains the MeteringPoint Devices

Attribute	Remark
MeteringPointEAN	

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Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
[www.fingrid.fi](http://www.fingrid.fi)

Attribute	Remark
DeviceIdentification	
DeviceType	
<i>Generic attributes that only apply to all devices</i>	
MaximumPower	
MaximumPowerUnit	
<i>Specific attributes that only apply to production devices (PDV)</i>	
ProductionDeviceName	
ProductionType	
<i>Specific attributes that only apply to storage devices (SDV)</i>	
StorageDeviceName	
StorageDeviceType	
Capacity	
CapacityUnit	
<i>Specific attributes that only apply to controlled loads (CTL)</i>	
ControlledLoadName	
Description	
Timings	
ControlLimits	

## 2.1.1.2 DHB.RPT.013b (Customer data)

### Applied data authorisation

Market Role	Remark
AUT	AUT can export all data
DSO	<p>GridOperator can export all data for which it has one of the following agreement linked to a Customer</p> <ul style="list-style-type: none"> <li>- 11 Grid Agreement</li> <li>- PGR Pre-grid agreement</li> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>

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FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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Market Role	Remark
DDQ	Supplier can export all data for which it has one of the following agreements linked to a Customer <ul style="list-style-type: none"> <li>- 12 Sales agreement</li> <li>- PSL Pre-sales agreement</li> <li>- LVG Leaving agreement</li> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>
THP	Third Party can export all data for which it has one of the following agreements linked to a Customer <ul style="list-style-type: none"> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>

## Report Data source

Entity	FILTER
AGREEMENTS	AgreementType IN (11,PGR,12,PSL,LVG,AP01,AP02,AP03,AP04,AP05) AgreementStatus = 'CFD'
CUSTOMERS	IsActive = true
CUSTOMER_POSTAL_ADDRESSES	

## Schedule parameters

Filter	Type	Description
Organisation	User selectable (optional)	Dropdown for MOP. Prefilled for other parties
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

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Street address

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Phone

Fax

Business Identity Code

Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
[www.fingrid.fi](http://www.fingrid.fi)

One report is created.

- CUS\_CRL\_REP

## CSV

CUS\_CRL\_REP

Contains Customer and Customer Postal Addresses

Attribute	Remark
CustomerIdentification	
AdditionalIdentification	
CustomerType	
CustomerSubtype	
CustomerIdentificationType	
EmailAddress	
TelephoneNumber	Not reported if requested by AUT and Consumer identified by Personal Identity Number.
Language	Not reported if requested by AUT and Consumer identified by Personal Identity Number.
IsInformationRestricted	Not reported if requested by AUT.
<i>Conditional attributes that only apply to consumers</i>	
GivenName	
MiddleNames	
FamilyName	
DateOfBirth	
<i>Conditional attributes that only apply to companies</i>	
CompanyName	
<i>Postal Address</i>	
StreetName	
BuildingNumber	
StairwellIdentification	
Apartment	
PostalCode	
PostOffice	
CountryCode	
AddressNote	
POBox	

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FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
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## 2.1.1.3 DHB.RPT.013c (Agreement data)

### Applied data authorisation

Market Role	Remark
AUT	AUT can export all data
DSO	GridOperator can export all data for which it has one of the following agreement types: - 11 Grid Agreement
DDQ	Supplier can export all data for which it has one of the following agreement types: - 12 Sales agreement
Other	No access

### Report Data source

Note: Also active future agreements included in this report.

Entity	FILTER
AGREEMENTS	AgreementType IN (11, 12) Agreement Status = 'CFD'
AGREEMENT_CONTACTS	
AGREEMENT_INVOICING_ADDRESSES	
AGR_CUS_RELATIONS	
AGR_PRD_RELATIONS	

### Schedule parameters

Filter	Type	Description
Organisation	User selectable (optional)	Dropdown for MOP. Prefilled for other parties
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

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FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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Four reports are created. Each report will generate a CSV file based on exact same bitemporal view on the data. The reports are:

- AGR\_CRL\_REP
- ACT\_CRL\_REP
- AGR\_CUS\_CRL\_REP
- AGR\_PRD\_CRL\_REP

## CSV

### AGR\_CRL\_REP

#### Agreement and Agreement Invoice Address Information

Attribute	Remark
AgreementType	
MeteringPointEAN	'translate' to GSRN
OrganisationIdentifier	
MarketRole	
AgreementIdentification	
<i>Generic attributes that apply to all agreements</i>	
AgreementStatus	
AgreementStartDate	
AgreementEndDate	
<i>Specific attributes that only apply to sales/grid agreements</i>	
ContactMethod	Not reported if requested by AUT.
InvoicingChannel	Not reported if requested by AUT.
InvoicingMethod	Not reported if requested by AUT.
CustomerNote	Not reported if requested by AUT.
IsDeliveryAgreement	
IsInterruptionCritical	Not reported if requested by AUT.
ReasonForAgreement Start	
ReasonForAgreement End	
<i>Specific attributes that only apply to grid agreements</i>	
TaxCategory	
<i>Specific attributes that only apply to sales agreements</i>	
IsFixedTermAgreement	
FixedTermStartDate	
FixedTermEndDate	
IsSpecialTermination Agreement	Not reported if requested by AUT.
SpecialTermination Period	Not reported if requested by AUT.

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+358 30 395 5196

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Attribute	Remark
TerminationPeriodStart Date	Not reported if requested by AUT.
TerminationPeriodEnd Date	Not reported if requested by AUT.
<i>Specific attributes that only apply to postal invoicing addresses (PIA)</i>	Not reported if requested by AUT.
StreetName	
BuildingNumber	
StairwellIdentification	
Apartment	
PostalCode	
PostOffice	
CountryCode	
AddressNote	
POBox	
<i>Specific attributes that only apply to electronic invoicing addresses (EIA)</i>	
BuyerReference	
ElectronicInvoicing Address	
OperatorIdentification	
<i>Specific attributes that only apply to other invoicing addresses (OIA)</i>	
EmailAddress	
TelephoneNumber	

ACT\_CRL\_REP

Agreement Contacts information

Attribute	Remark
<i>Reference to Agreement</i>	
AgreementType	
MeteringPointEAN	'translate' to GSRN
OrganisationIdentifier	
MarketRole	
AgreementIdentification	
<i>Details</i>	
ContactPersonType	
GivenName	

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Street address	Postal address	Phone	Fax	Business Identity Code
Läkkisepäntie 21	P.O.Box 530	+358 30 395 5000	+358 30 395 5196	FI27455435, VAT reg
FI-00620 HELSINKI	FI-00101 HELSINKI			forename.surname@fingrid.fi
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Attribute	Remark
FamilyName	
OtherName	
EmailAddress	
TelephoneNumber	

## AGR\_CUS\_CRL\_REP

Relation between Agreement and Customers

Attribute	Remark
<i>Reference to Agreement</i>	
AgreementType	
MeteringPointEAN	'translate' to GSRN
OrganisationIdentifier	
MarketRole	
AgreementIdentification	
AgreementID	
<i>Reference to Customer</i>	
CustomerIdentification	

## AGR\_PRD\_CRL\_REP

Relation between Agreement and Products

Attribute	Remark
<i>Reference to Agreement</i>	
AgreementType	
MeteringPointEAN	'translate' to GSRN
OrganisationIdentifier	
MarketRole	
AgreementIdentification	
AgreementID	
<i>Reference to Product</i>	
ProductCode	

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FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

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## 2.1.1.4 DHB.RPT.013d (Authorisation data)

**Note: this report/data is included in the report 013a.**

### Applied data authorisation

Market Role	Remark
DSO	<p>GridOperator can export all data for which it has one of the following agreement linked to a Customer</p> <ul style="list-style-type: none"> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>
DDQ	<p>Supplier can export all data for which it has one of the following agreements linked to a Customer</p> <ul style="list-style-type: none"> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>
THP	<p>Third Party can export all data for which it has one of the following agreements linked to a Customer</p> <ul style="list-style-type: none"> <li>- AP01 Energy reporting (with access to metering data)</li> <li>- AP02 Invitation to tender (with access to metering data)</li> <li>- AP03 Competitive bidding for an agreement as a service (with access to metering data)</li> <li>- AP04 Invitation to Tender (no access to metering data)</li> <li>- AP05 Competitive bidding for an agreement as a service (no access to metering data)</li> </ul>
Other	No access

### Report Data source

**Note: Also the active future agreements included in this report.**

Entity	FILTER
AGREEMENTS	<p>AgreementType IN (AP01,AP02,AP03,AP04,AP05)</p> <p>AgreementStatus = 'CFD'</p>
AGR_CUS_RELATIONS	

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## Schedule parameters

Filter	Type	Description
Organisation	User selectable (optional)	Dropdown for MOP. Prefilled for other parties
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

One report is created. Each report will generate a CSV file based on exact same bitemporal view on the data. The report is:

- AUT\_CRL\_REP

## CSV

### AUT\_CRL\_REP

Attribute	Remark
AgreementType	
MeteringPointEAN	'translate' to GSRN
OrganisationIdentifier	
MarketRole	
<i>Details</i>	
AgreementStartDate	
AgreementEndDate	
AuthorisationReason	
AuthorisationDescription	
<i>Customer</i>	
CustomerIdentification	

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FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

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## 2.1.2 DHB.RPT.013e (Invoicing Data)

Export of the Invoicing data.

Note: In the DH-700 messages there is a 1..n relation between invoice and invoice row. In the Datahub each invoice row is stored with all attributes of the Invoice. Export is done on Invoice Row level, where each Invoice Row contains the full details of the Invoice.

Market Role	Remark
DSO	Party should match the AuthorPartyIdentification/AuthorPartyMarketRole or RecipientParty/RecipientPartyMarket Role
DDQ	Party should match the AuthorPartyIdentification/AuthorPartyMarketRole or RecipientParty/RecipientPartyMarket Role
THP	No access
Other	No access

### Report Data source

Entity	FILTER
INVOICEROW	[Organisation] should match either AuthorPartyIdentification + '-' + AuthorPartyMarketRole or RecipientParty + '-' + RecipientPartyMarketRole)

### Schedule parameters

Filter	Type	Description
[Organisation]	User selectable (mandatory)	Dropdown for MOP. Prefilled for other parties
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

One report is created. The report is:

- IVM\_CRL\_REP

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FI-00101 HELSINKI

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## CSV

### IVM\_CRL\_REP

Attribute	Remark
MeteringPointEAN	'translate' to 'GSRN'
AuthorAgreement Identification	
RecipientAgreement Identification	
AuthorPartyIdentification	
AuthorPartyMarketRole	
RecipientPartyIdentification	
RecipientPartyMarketRole	
TransactionIdentification	
InvoiceIdentifier	
InvoiceCreationDate	
InvoicingPeriodStartTime	
InvoicingPeriodEndTime	
InvoiceRowIdentifier	
ProductCode	
ProductComponentCode	
Price	
PriceUnit	
PriceUnitIdentification	
Currency	
IsPriceTaxIncluded	
Quantity	
QuantityUnit	
QuantityUnitIdentification	
InvoiceRowTotal	
Description	
VATPercentage	
InvoiceRowStartTime	
InvoiceRowEndTime	

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P.O.Box 530  
FI-00101 HELSINKI

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## 2.1.3 DHB.RPT.046 (Balance data validity report to the supplier)

Report can be executed by Supplier and the Market Operator.

The report contains the balance agreements that are active on the moment of generating the report.

### Report Data source

Entity	FILTER		
METERINGPOINT	METERING_POINT_TYPE	= 'ACP'	(Accounting point)
AGREEMENT	AGREEMENT_TYPE	= 'BLC'	(Balance agreement)
	AGREEMENT_STATUS	= 'CFD'	(Confirmed)

### Applied data authorisation

Market Role	Filter	Remark
DDQ	ORGANISATION_IDENTIFIER = AGREEMENT.ORGANISATION_IDENTIFIER	User can see all rows for own Agreement
Other		No access

### Schedule parameters

Filter	Type	Description
Balance Supplier	User selectable	Dropdown for MOP. Prefilled for Supplier
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)

### CSV

One report containing the following information:

- BLC\_CRL\_REP

Attribute	Column Name
METERING_POINT_EAN	METERING_POINT_EAN
METERING_POINT_TYPE	METERING_POINT_TYPE
METERING_GRID_AREA_CODE	METERING_GRID_AREA_CODE
METERING_METHOD	METERING_METHOD

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Attribute	Column Name
AGREEMENT_START_DATE	AGREEMENT_START_DATE
AGREEMENT_END_DATE	AGREEMENT_END_DATE
ORGANISATION_IDENTIFIER	BALANCE_SUPPLIER

## 2.1.4 DHB.RPT.058 (Structural data for imbalance settlement)

The System must be able to repost the structural data of metering grid area.

The export will contain the active data on the scheduled time (e.g. no history on MGA)

- Metering grid area information for MOP, DSO and DDQ (*public* information);
- Information of the MGA's obligatory supplier, loss supplier and imbalance supplier for MOP and DSO;
- Information of the exchange points in the MGA for MOP and DSO;
- Information of the (virtual) production units in the MGA for MOP, DSO and DDQ;
- Information of the balance settlement connections for MOP, DSO and DDQ.

### Applied data authorisation

Market Role	Remark
DSO	DSO can export all data for which it has one of the following agreements/rights: <ul style="list-style-type: none"> <li>- DSO owning agreement (DSO) for Exchange Points and Production Unit;</li> <li>- DSO infeed agreement (ISO) for Exchange Points;</li> <li>- DSO outfeed agreement (OSO) for Exchange Points;</li> <li>- is the responsible DSO in the MGA of the Virtual Production Unit;</li> <li>- is the responsible DSO in the MGA of the Balance Settlement Connection.</li> </ul>
DDQ	Supplier can export all data for which it has one of the following agreements/rights: <ul style="list-style-type: none"> <li>- has a supplier agreement (SUP) for the Production Unit;</li> <li>- has a supplier agreement (SUP) for the Virtual Production Unit;</li> </ul> is the supplier of the Balance Settlement Connection.
Other	No access

### Report Data source

Entity	FILTER
METERING_GRID_AREAS	

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FI-00620 HELSINKI	FI-00101 HELSINKI	+358 30 395 5000	+358 30 395 5196	forename.surname@fingrid.fi
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Entity	FILTER
MARKET_BALANCE_AREAS	
METERING_POINTS	METERING_POINT_TYPE IN (EXP, PRU,VPU) (exchange, (virtual) production)
AGREEMENTS	AgreementType IN (DSO,ISO,OSO,SUP) (if agreement needed: AgreementStatus = 'CFD' Confirmed)
BALANCE_SETTLEMENT_CONNECTIONS	IS_ACTIVE = 1 (True)

## Schedule parameters

Filter	Type	Description
MGA	User selectable (optional)	Dropdown for MOP (all GridAreas) Dropdown for DSO (only owned GridAreas)
ViewDate	Default schedule parameter	Schedule execution time (EQL statement)
TransactionTime	Default schedule parameter	Schedule execution time (EQL statement)
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

Three reports are created:

- IMB\_MGA\_CRL\_REP
- IMB\_MPT\_CRL\_REP
- IMB\_BSC\_CRL\_REP

## CSV

### IMB\_MGA\_CRL\_REP

Attribute	Remark
MGA.MeteringGridAreaCode	
MGA.MeteringGridAreaName	
MGA.MeteringGridAreaType	

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P.O.Box 530  
FI-00101 HELSINKI

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+358 30 395 5196

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Attribute	Remark
MGA.ResponsibleDSO	
MGA.ObligatorySupplier	Not visible for Supplier.
MGA.ImbalanceOpenSupplier	Not visible for Supplier.
MGA.LossSupplier	Not visible for Supplier.
MBA.MarketBalanceAreaCode	Relation using MGA.MarketBalanceAreaID.
MGA.NegativeGridLossEAN	'translate' to GSRN.

## IMB\_MPT\_CRL\_REP

Attribute	Remark
MPT.MeteringPointEAN	'translate' to GSRN
<i>Generic attributes that apply to all/multiple Metering Points</i>	
MPT.MeteringPointStatus	
MPT.MeteringPointType	
MPT.MeteringGridAreaCode	
MPT.ElectricPower	
<i>Specific attributes that only apply to Exchange Points (EXP)</i>	
MPT.InGridAreaCode	
MPT.OutGridAreaCode	
MPT.FieldIdentification	
MPT.StationIdentification	
MPT.StationName	
MPT.DirectionOfTransfer	
<i>Specific attributes that only apply to Production Units (PRU) and Virtual Production Units (VPU)</i>	
MPT.ProductionUnitName	
MPT.ProductionUnitType	
MPT.ProductionUnitClass	

## IMB\_BSC\_CRL\_REP

Attribute	Remark
BSC.MeteringGridAreaCode	
BSC.SupplierIdentifier	
BSC.BusinessType	
BSC.SettlementMethod	

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Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
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## 2.1.5 DHB.RPT.ECO (Energy Community Ownership)

This control report provides the relevant data to check if an Energy Community and all involved member Accounting Points (based on their MGA) are owned by the same responsible DSO. There is a GUI to request the CSV report for the selected Energy Community.

### Schedule parameters

Filter	Type	Description
[EnergyCommunity]	String (mandatory)	The selected energy community to be reported.
[ReportDate]	Date (mandatory)	The date for which the energy community data is reported.
Organisation	Not user selectable (mandatory & hidden)	Default the requesting organisation (i.e. MOP).
ASAP	Default = No	Domain {Yes/No}: - if Yes, then Scheduled Time is ignored; - if No, then Scheduled Time is required.
ScheduledTime	Default = current date/time	The date/time on which the report is run. Validation Rule: cannot be in the past.

### Applied data authorisation

Market Role	Remark
DSO	DSO can export data of an Energy Community if: <ul style="list-style-type: none"> <li>its Organization is the responsible DSO of the selected Energy Community;</li> <li>its Organization is the responsible DSO of a member Accounting Point of the selected Energy Community.</li> </ul>
DDQ	No access
THP	No access
Other	No access

### Report Data source

Entity	FILTER
ENERGY_COMMUNITIES	ECY.EnergyCommunityIdentifier = [EnergyCommunity] and ECY.ValidFromDate <= [ReportDate] and ECY.ValidToDate > [ReportDate]

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Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
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Entity	FILTER
METERING_POINTS	MPT.EnergyCommunityIdentifier = ECY.EnergyCommunityIdentifier and MPT.ValidFromDate <= [ReportDate] and MPT.ValidToDate > [ReportDate]
METERING_GRID_AREAS	MGA.MeteringGridAreaCode = MPT.MeteringGridAreaCode and MGA.ValidFromDate <= [ReportDate] and MGA.ValidToDate > [ReportDate]

One report is created. The report is:

- ECO\_CRL\_REP

## CSV

Contains a selected Energy Community and all its Members (i.e. consumption/production Accounting Points).

Attribute	Remark
<i>Generic attributes that apply to the Energy Community</i>	
ECY.EnergyCommunityIdentifier	See filter above
ECY.EnergyCommunityName	
ECY.ResponsibleDSO	
ECY.StartDate	
ECY.EndDate	
<i>Specific attributes that apply to its member Accounting Points</i>	
MPT.MeteringPointEAN	'translate' to GSRN
MPT.MeteringPointStatus	
MPT.MeteringPointType	
MPT.AccountingPointType	
MPT.AccountingPointSubtype	
MPT.EnergyCommunityIdentifier	See filter above
MPT.MeteringGridAreaCode	
MGA.ResponsibleDSO	See filter above

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Läkkisepäntie 21  
FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
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## 3 Control Reports MDM-SMT

### 3.1.1 DHB.RPT.023b – Report on metering data statuses (free interval)

This report consists of a summary of metering data statuses for all accounting points. Output number of various statuses per time interval (reported per hour, also when both hourly and 15 minutes data is available, in which case the 'weakest' status is returned).

#### Report Data source

Source [PIS.SMT]	Selection
Structured Calculation	See the calculation described in paragraph 3.1.1.1.

#### Applied data authorisation

Market Role	Filter	Remark
DSO	[ORGANISATION_IDENTIFIER] = DSOID	User can see all rows for own Organisation

#### Schedule parameters

Filter	Type	Description
Grid Operator	User selectable	Dropdown for MOP. Prefilled for Grid Operator (DSO) [Mandatory]
StartTime	Timestamp	Inclusive start time of the period of interest
EndTime	Timestamp	Exclusive end time of the period of interest

#### CSV

One report containing the following information is created based on the calculation described in the next paragraph:

- MD\_STATUS\_REP

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Attribute	Column Name
Reading.readTS	TIMESTAMP
SMP Attributes.MGA	METERING_GRID_AREA_CODE
SMP.typ	METERING_POINT_TYPE
SMP Attributes.meteringMethod	METERING_METHOD
Reading.state	METERING_DATA_STATUS
COUNT	NUMBER_OF_METERING_POINTS

### 3.1.1.1 Calculation

For this report a calculation function with the next details is foreseen.

#### Master Data Filters

Filter [PIS.MDM]	Description
Channel.chanNo	Only normal readings that are measured with (default) channel 0.

#### Reading Data filters

Filter [PIS.MDM]	Description
Reading.readTS	Reading timestamp within startTS and endTS of schedule

#### Grouping

Attribute [PIS.MDM]	Attribute type (Master/Sensor Data)
Reading.readTS	Sensor Data (hourly timestamps)
SMP Attributes.MGA	Master Data
SMP.typ	Master Data
SMP Attributes.meteringMethod	Master Data
Reading.state	Sensor Data

#### Aggregation

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FI-00620 HELSINKI

P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

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Aggregation Attribute [PIS.MDM]	Attribute type (Master/Sensor Data)	Aggregation expression	Remark
Reading.state	Sensor Data	COUNT	Number of reading values per grouping  Note that the reporting is done per hour. In case of different state values within the hour (in case of 15 minutes readings), the weakest status will be used.

### 3.1.2 DHB.RPT.060 – Time series data for selected imbalance time series

The report provides time series for selected imbalance settlement runs with a selected time interval of user's choice.

#### Report Data source

Source [PIS.SMT]	Selection
GetCalculatedTimeSeries	API to support this report

#### Applied data authorisation

Market Role	Filter	Remark
DDQ	ORGANISATION_IDENTIFIER = SUPID	User can see all rows for their organisation
DSO	ORGANISATION_IDENTIFIER = DSOID	User can see all rows for their organisation
Other		No access

#### Schedule parameters

Filter	Type	Description
Organisation	User selectable (optional)	Dropdown for MOP. Prefilled for other parties
GridArea	User selectable (mandatory)	Supplier/MOP: Full list of Grid Areas, from which multiple or all MGAs can be selected by the user ( <i>but at least one</i> ).

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Filter	Type	Description
ASAP	Default = No	Domain: Yes/No. If yes: scheduled time is ignored If no: scheduled time is required
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past
StartTime	User selectable (mandatory)	Inclusive start time of the period of interest
EndTime	User selectable (mandatory)	Exclusive end time of the period of interest
BusinessType	User selectable (mandatory), using CMD domain {BST}  Supplier can only select subset using CMD domain {BST_DDQ}	Available values defined by Balance Settlement Type domains, see [FD.CMD.ADC].
DataCorrectedOutsideBalanceWindow	User selectable (checkbox)	0 (unchecked) = not requesting data corrected outside the balance window (i.e. requesting official data)  1 (checked) = requesting data corrected outside the balance window

## CSV

One report containing the following information is created based on the calculation described in the next paragraph:

- SMT\_IMBALANCE\_TS\_REP

Attribute	Column Name
Business Type	BUSINESS_TYPE
Calculation Start Period Timestamp	CALC_START_TS
Calculation End Period Timestamp	CALC_END_TS
Outside Balance Window Indicator (1 if true)	OBW
Resolution	RES
Unit of Measure	UOM
Time Series Header Key Attribute	[TSH_KEY_VALUE_1]
Time Series Header Key Attribute	[TSH_KEY_VALUE_..]
Timestamp for the value	READ_TS
Time Series (e.g. Aggregation) Value	TS_VAL
Time Series Quality	TS_QUAL {NONE, UNCERTAIN, MISSING, EST, OK, REVISED}

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The key values for the Time Series Header (TSH) are described per business type in the table below:

Business Type	Time Series Type	Key(s)
BI01	Supplier consumption profiled	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI02	Supplier consumption non-profiled	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI03	Supplier PU own consumption profiled	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI04	Supplier PU own consumption non-profiled	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI05	Supplier small scale production by production type	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID, PRODUCTION_UNIT_TYPE
BI06	Production unit production	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID, METERING_POINT_ID
BI07	MGA losses	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI08	MGA negative losses	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI09	MGA Imbalance from ISR	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID
BI10	MGA consumption profiled	METERING_GRID_AREA, DSO_ID
BI11	MGA consumption non-profiled	METERING_GRID_AREA, DSO_ID
BI12	MGA PU own consumption profiled	METERING_GRID_AREA, DSO_ID
BI13	MGA PU own consumption non-profiled	METERING_GRID_AREA, DSO_ID
BI14	MGA small scale production by production type	METERING_GRID_AREA, DSO_ID, PRODUCTION_UNIT_TYPE
BI15	MGA small scale production total	METERING_GRID_AREA, DSO_ID
BI16	MGA production unit by production type	METERING_GRID_AREA, DSO_ID, PRODUCTION_UNIT_TYPE
BI17	MGA production unit total	METERING_GRID_AREA, DSO_ID
BI18	MGA exchange sum	METERING_GRID_AREA, DSO_ID, METERING_GRID_AREA_NEIGHBOR
BI19	MGA exchange sum total	METERING_GRID_AREA, DSO_ID
BI20	MGA Exchange Confirmation from ISR	METERING_GRID_AREA, DSO_ID, METERING_GRID_AREA_IN, METERING_GRID_AREA_OUT
BI21	Supplier small scale production total	METERING_GRID_AREA, DSO_ID, SUPPLIER_ID

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P.O.Box 530  
FI-00101 HELSINKI

+358 30 395 5000

+358 30 395 5196

FI27455435, VAT reg  
forename.surname@fingrid.fi  
[www.fingrid.fi](http://www.fingrid.fi)

### 3.1.3 DHB.RPT.062 – Metering information/ Change history

This reporting functionality is resolved by viewing the metering data for a metering point, select the option 'Include History' (this will show all versions of the data per reading timestamp) and use the export option on the grid in which the time series data is displayed.

### 3.1.4 DHB.RPT.013f – Time Series Data for Metering Points

The report provides the time series of metering points (accounting point, exchange point, production unit).

#### Report Data source

Source [PIS.MDM]	Selection
GetReadings	API to support this report

#### Applied data authorisation

Market Role	Filter
DSO & DDQ	See [MDM.PIS] : An organisation can only retrieve data for its own organisation for the period it has a data authorisation

#### Schedule parameters

Filter	Type	Description
Organisation	Not user selectable (mandatory& hidden)	Prefilled for MOP with Identifier of MOP Prefilled for Grid Operator (DSO) and Supplier (SUP) with their Organisation.
ReadingType	If not selected, then all types are included.	Domain: <ul style="list-style-type: none"> <li>BN01 (Normal readings - measured)</li> <li>BN02 (Netted readings - calculated)</li> <li>BN03 (Community readings - calculated)</li> </ul> <i>Note: The report will contain the code.</i>
ASAP	Default = No	Domain: Yes/No. <ul style="list-style-type: none"> <li>If yes: scheduled time is ignored</li> <li>If no: scheduled time is required</li> </ul>
ScheduledTime	Default = current date/time	Validation Rule: cannot be in the past

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Street address	Postal address	Phone	Fax	Business Identity Code
Läkkisepäntie 21	P.O.Box 530	+358 30 395 5000	+358 30 395 5196	FI27455435, VAT reg
FI-00620 HELSINKI	FI-00101 HELSINKI			forename.surname@fingrid.fi
				<a href="http://www.fingrid.fi">www.fingrid.fi</a>

Filter	Type	Description
StartTime	User selectable (mandatory)	Start time for data period of interest
EndTime	User selectable (mandatory)	End time for data period of interest

## CSV

One report containing the following information is created based on the calculation described in the next paragraph:

- MD\_METERING\_INFO\_RAW

Attribute [PIS.MDM]	Column Name
extSmpID	METERING_POINT_ID
Smp.type	METERING_POINT_TYPE (F01, E18, E20)
Channel.chanNo	READING_TYPE (BN01, BN02, BN03), i.e. Normal, Netted or Community readings based on channel numbers DEFAULT (measured), NETTED resp. COMMUNITY (both calculated).
Channel.chanSubType	PRODUCT_TYPE
Channel.intv	RESOLUTION (60, 15), i.e. hourly and 15 minute time series.
Channel.dir	DIRECTION Domain: <ul style="list-style-type: none"> <li>• RCVD (received)</li> <li>• DELIV (delivered)</li> </ul> <i>Note: The report will contain the code.</i>
Channel.uom	UNIT_TYPE
Reading.readTS	START_TIME
Reading.val	QUANTITY
Reading.type	QUALITY (empty if it is OK)

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