GTT REST API User Manual
GTT REST API HowTo

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1 Introduction

This guide will show you how to access Global Trade Tracker ('GTT') with the GTT REST API. The guide assumes that you are a programmer or researcher who is familiar with the concepts and techniques of retrieving data from Web Services.

2 Accessing the GTT REST API

Following requirements have to be fulfilled to be able to access the GTT REST API:

- You need a valid GTT userid

3 Retrieving an API Token

Please note: The REST API itself can be accessed only with a valid Token.

With a valid GTT userid you can retrieve an API Token to access the REST API which will be valid for 14 days.

This Token must then be sent in all subsequent calls to the API, either in the http header request (the preferred way) or as URL or POST parameter.

The Header must have the following format:

```
Authorization : Bearer 61D1345AFF690F8F5D13DAB12F6EC9DE
```

If the Token is sent as URL GET parameter:

…/?para1=…**&token=61D1345AFF690F8F5D13DAB12F6EC9DE**&paraN=…

Or as POST/Form parameter "**token**"

The target URL to retrieve a token is:

```
https://www.globaltradetracker.com/api/rest/gettoken
```

Both methods 'GET' and 'POST' are supported to retrieve a Token.

Parameters which are mandatory to retrieve a token:

userid   a valid GTT userid
password   the password for the supplied GTT userid

Example GET request:
https://www.globaltradetracker.com/api/rest/gettoken?userid=myGTTuserid&password=myPassword

Or a Token can be retrieved through the basic user interface found at:

https://www.globaltradetracker.com/api/

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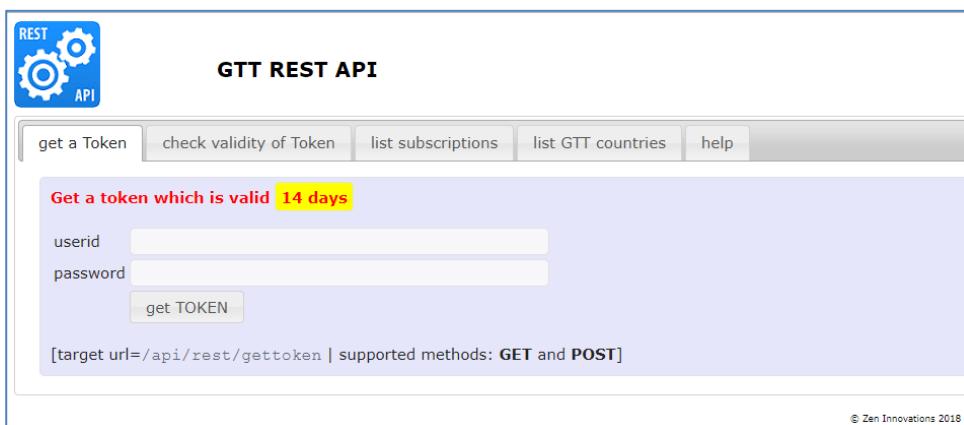
4 URIs and Endpoints

The following services are available

4.1 Subscription details

To get the details of your current subscription (countries and commodity codes) for the actual contract/userid, use:

`https://www.globaltradetracker.com/api/rest/getreport/subscriptions`

Supported method: 'GET'

Parameter:
`periodType`

following periodType's are currently supported:
- **M** (month)
- **Y** (year)
- **Q** (quarter)
- **S** (semester)
- **YTD** (year-to-date)

If not selected, the default is `periodType=M`

Response: JSON

4.2 Available Countries

To get a list of all available countries on GTT (including alphageonom2 code, source, first/last available date, date of last update, update frequency, extra information etc.) use:

`https://www.globaltradetracker.com/api/rest/getreport/countries`

Supported method: 'GET'
Parameter:
- `periods`
  if specified with the value "`true`", the country information also contains the list of available periods with the data status for each period.
  The status values are:
  - **FULL** – complete trade data is available
  - **PART** – partial data is available
  - **VALUES** – only the values are available, no quantity information
  - **EXTRAEU** – only the extra-EU information is available (used for the EU countries only).
- `lang`
  defines the language used for the translation of the country names.
  Allowed values: `en de fr zh_CN es hi ja`

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Default value if missing/not set: `en`

Response: JSON

4.3 Available Trade details

To get a list of names and ids of the available trade details for the countries on GTT use.
Please note: Only a certain number of countries report this type of information. Please refer to the data availability list to get the different countries and their supplementary data elements.

`https://www.globaltradetracker.com/api/rest/getreport/tradedetails`

Supported method: 'GET'
Parameter:

- `tradedetails`
  defined the type of the trade details.
  The value for this parameter depdends on the country and can be one of the fields in the country information 'supplementaryInfo` field (see 4.2 Available Countries above).
  For example:
    - **SUBDIVISION** – country subdivisions, states, provinces, etc.
    - **PORT** – country ports
    - **TRANSPORT** – transportation mode
  The parameter is required.
- `countryCode`
  Geonom alpha-2 country code.
  Some of the reporting countries have several sets of the trade data. It is possible to select the specific trade data by appending the suffix to the country code.
  E.g. 'FR_customs' specifies the trade data provided by the national statistics office,
  'FR_eurostat' specifies the data provided by Eurostat.
  If the reporting country has several sets of the trade data, it will be specified several times in the list of countries provided by the 'Available Countries' end-point (see 4.2 above) with the respective suffixes in the 'reportercode' property.
  The parameter is required unless, the parameter `tradedetails=TRANSPORT` is specified (the avaialable transportation modes are not country-specific).
- `lang`
  defines the language used for the translation of the trade detail names.
  Allowed values: `en de fr zh_CN es hi ja`
  Default value if missing/not set: `en`

Response: JSON

4.4 Report fields

To get a list of all available report fields use:

`https://www.globaltradetracker.com/api/rest/getreport/fields`

Supported method: 'GET'
Parameter:

- `lang`
  defines the language used for the translation of the field names and desriptions.
  Allowed values: `en de fr zh_CN es hi ja`
  Default value if missing/not set: `en`

Response: JSON

4.5 Data updates

To retrieve information regarding data updates on GTT (whether this is newly added data or updated data) following URL can be used:

`https://www.globaltradetracker.com/api/rest/getreport/dataupdates`

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Supported method: 'GET'

Parameter:
- `countryCode`
  a list of comma-separated country codes, e.g. "`US,CA,CH`"
- `periodType`
  following *periodType'*s are currently supported:
  - **M** (month)
  - **Y** (year)
  - **Q** (quarter)
  - **S** (semester)
  - **YTD** (year-to-date)
  If not selected, the default is **M**
- `updatedAfter`
  the date to check for updates/additions (i.e. updates/additions will be reported from this date onwards)
  supported formats:
  - yyyy-MM-ddTHH:mm:ss
  - yyyy-MM-dd (will become yyyy-MM-ddT00:00:00 internally)
  - yyyy-MM (will become yyyy-MM-01T00:00:00 internally)
  - yyyy (will become yyyy-01-01T00:00:00 internally)
- `updatedBefore`
  if specified, only the updates/additions before this date are included.
  supported formats:
  - yyyy-MM-ddTHH:mm:ss
  - yyyy-MM-dd (will become yyyy-MM-ddT00:00:00 internally)
  - yyyy-MM (will become yyyy-MM-01T00:00:00 internally)
  - yyyy (will become yyyy-01-01T00:00:00 internally)
- `includetimestamps`
  if specified as 'true', the updated periods are returned with the timestamp, when the trade dara was added and revised.

Response: JSON

4.6 Report Generation
To create a GTT report, use:

```
https://www.globaltradetracker.com/api/rest/getreport
```

Supported methods: 'GET' and 'POST'

5 Accessing Trade Data
Use the URI defined in chapter 4.6 to create and access datasets using GTT's REST API.
You can retrieve data by sending an HTTPS GET or POST request to the URI with the appropriate (query string) parameters.
Chapter 7 lists all the available parameters you can use.

Example:
The following API call will retrieve the monthly import value from January 2016 to June 2016 for Germany and Switzerland for HS Codes 8401 and 2703 in JSON format (if the following API Token was valid – the one below is not valid).

```
https://www.globaltradetracker.com/api/rest/getreport?token=NNNNNNNNNNNNNNNN
NNNNNNNNNNNNNNNNNNNN&impexp=I&periodtype=M&from=2016-01&to=2016-
06&reporter=DE%2CCH&accumulatereportergroups=true&partner=&accumulatepartner
groups=true&source=DEFAULT&hscode=8401%2C2703&accumulatecommoditygroups=true
&hslevel=0&currency=&unit=&decimalscale=&customconversionrules=true&layout=b
rief&format=json
```

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5.1 Access the GTT REST API with Microsoft PowerBI
The GTT REST API can be accessed and queried through Microsoft PowerBI as well:
See https://www.globaltradetracker.com/api/powerbi/powerbi-help.jsp for a quick overview.

5.2 Access the GTT REST API with Tableau Server
The GTT REST API can be queried through a Tableau server as well:
See https://test.globaltradetracker.com/api/wdc/help/wdc-help.jsp for a quick overview on how to access the GTT REST API through its GTT WDC (Web Data Connector)

6 Output Format
The API returns data in following formats:

- Javascript Object Notation (JSON) format
- Comma-separated values format (CSV)
- Microsoft Excel Open XML format (XLSX)

7 Parameters
Beside the authorization token which has to be provided either in the request HEADER or as parameter "***token***", the following 4 parameters MUST be provided with valid values, otherwise a GTT report cannot be created:

```
reporter, hscode, impexp, source
```

One of the following two parameters is required (if both parameters are set, `latestmonths` has precedence):
```
from, latestmonths
```


7.1 accumulatecommoditygroups
allowed values: `true false`

default value if missing/not set: `false`

description: `If a commodity group is used (chapter 7.16) and if accumulatecommoditygroups is set to true, then all commodity codes (HS Codes) defined for that group will be aggregated. If set to false, the data set will list trade for each commodity code listed in that group.`

7.2 accumulateotherpartners
allowed values: `true false`

default value if missing/not set: `false`

description: `If a set of countries is defined for partner countries (chapter 0) and accumulateotherpartners is set to true, then trade with all countries other than those specified in partner countries will be aggregated as a total. If set to false, then the trade will be listed for each other partner country.`

7.3 accumulatepartnergroups
allowed values: `true false`

default value if missing/not set: `false`

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description: If country groups are listed for partner countries (chapter 0) and if *accumulatepartnergroups* is set to true, then trade will be aggregated for each of these country groups. If set to false, trade will be listed for each partner country.

7.4 accumulatereportergroups

allowed values: true false

default value if missing/not set: false

description: If country groups are listed for reporting countries (chapter 7.36) and if *accumulatereportergroups* is set to true, then trade will be aggregated for each of these country groups. If set to false, trade will be listed for each partner country.

7.5 currency

allowed values: one of the currency 3-letter ISO codes supported from GTT (see below)

default value if missing/not set: original currency (as reported)

description: The following currencies are supported in GTT and can be used:

```
AUD      Australian Dollar
BHD      Bahraini Dinar
BWP      Botswana Pula
BZD      Belize Dollar
CAD      Canadian Dollar
CHF      Swiss Franc
EGP      Egyptian Pound
ETB      Ethiopian Birr
EUR      Euro
GBP      British Pound
GHS      Ghanaian New Cedi
HKD      Hong Kong Dollar
INR      Indian Rupee
ISK      Island Kron
JOD      Jordanian Dinar
JPY      Japanese Yen
KES      Kenian Shilling
MAD      Moroccan Dirham
MOP      Macau Pataca
MYR      Malaysian Ringgit
NOK      Norwegian Kroner
NZD      New Zealand Dollar
QAR      Qatari Rial
SAR      Saudi Riyal
SGD      Singapore Dollar
THB      Thai Baht
TWD      Taiwan Dollar
USD      US Dollar
XOF      CFA Franc BCEAO
ZAR      South African Rand
```

7.6 customconversionrules

allowed values: true false

default value if missing/not set: true

description: If set to true, this option allows to apply custom conversion rules (defined on the options page in the GTT web application) for that userid or shared with that userid. If set to false, then only the standard conversion

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rules will be used to convert the reported quantities to the requested
quantity unit (chapter 7.23).

7.7 dataelements

allowed values: Comma or semicolon separated list of constants
                                          'V', 'Q1' or 'Q2'

default value if missing/not set: V,Q1,Q2

description: This parameter defines the data elements which should be included
in the report:
V   monetary values
Q1   primary quantity
Q2   secondary quantity

7.8 decimalscale

allowed values: must be an integer, e.g. 1 or 2 or 3 etc.

default value if missing/not set: 0

description: This parameter allows to specify the precision with which the
results are reported. The default of 0 will round decimals to an integer
value.

7.9 excludeintratrade

allowed values: true false

default value if missing/not set: false

description: This parameter allows to exclude intra trade amongst a country
group. If several country groups are listed, then intra trade is removed
within each individual group. In this case, the result will be external
trade for each country group. E.g. if Nafta and EU28 are listed and this
parameter is set to true, then the result would be a data set listing
external trade of EU28 with the world (including NAFTA) and external trade
of NAFTA with the world (including EU28). If set to false, then all reported
trade is returned.

7.10 fallbacktomirrordata

allowed values: true false
default value if missing/not set: false

description: This parameter allows to use the mirror data if the country
specified in the 'reporter' parameter (see 7.36 below) does not provide the
trade data.

7.11 fetchsameperiodnyears

allowed values: positive number

default value if missing/not set: -

description: The requested period (defined with "from", "to", "latestmonths" or
"latestavailablemonths" parameters) for the specified number of previous
months is included in the report.

7.12 field

allowed values: Comma or semicolon separated list of field ids.
default value if missing/not set: –

description: This parameter allows to define the fields in the generated report.

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The list of available report fields can be obtained from the service 'Report fields' (see 4.44.4 above).
If this parameter is not specified, the report will contain the default set of fields.
The names of the report JSON properties or CSV/XLSX columns is defined by the 'layout' parameter (see 7.23 below).

7.13 filterbysource

allowed values: Supported values are

    DEFAULT
    NATIONAL
    EUROSTAT
    COMTRADE

default value if missing/not set: –

description: This parameter defines the source of the data. For some European countries there are two sources available (e.g. France, Germany, etc.). NATIONAL will provide the national statistics data while EUROSTAT will provide the one from Eurostat.
If this parameter is specified, only the reporting countries with the defined data source will be used in the report. If the country does not have the requested source available, it will be skipped.
If the value DEFAULT is specified, the countries with the national data source will be selected if they exit, otherwise the country with the other data source will be used.
This parameter cannot be used together with the 'source' parameter (see 7.38 below).

PLEASE NOTE: This parameter is used **only** if the reporter code is specified without suffix (i.e. without e.g. "FR_eurostat" or FR_customs".

7.14 format

allowed values: JSON CSV XLSX

default value if missing/not set: JSON

description: This parameter defines the report format which is either JSON, XLSX (Microsoft Excel Open XML format) or CSV.

7.15 from

allowed values: The start of the date period.
                                        This is a required parameter which must be in the format YYYY-MM or YYYYMM. If yearly data is requested (chapter 7.17) then the date can be in the format YYYY.

default value if missing/not set: -
                                        (please note: one of either "from", "latestmonths" or "latestavailablemonths" is required;
                                        The parameters "latestavailablemonths" and "latestmonths" have precedence over "from".)

description: This parameter defines the start date for which data should be considered from

7.16 hscode

allowed values: Comma or semicolon separated list of HS codes or commodity group names. Sections can as well be referenced as e.g. S01 for Section 01.

default value if missing/not set: not allowed

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description: This parameter defines the hs codes for the data set. Please note that you will need to have a valid subscription to access all of the listed HS codes whether they are directly listed or indirectly defined via your commodity groups.

7.17 hslevel
allowed values:

the following values are allowed:
```
-1   explode to tariff level
 0   do not explode
 2   Explode to HS2 level
 4   Explode to HS4 level
 6   Explode to HS6 level
```

default value if missing/not set: 0

description: This parameter allows to explode the commodity codes defined in chapter 7.16 to the desired level. The codes in the commodity groups are not exploded if the parameter *accumulatecommoditygroups* is set to true.

7.18 impexp
allowed values:
```
I    for Imports plus Re-Imports
E    for Exports plus Re-Exports
IE   for Imports and Exports in the same report
TB   for trade balance (Exports – Imports)
TT   for total trade (Exports + Imports)
RI   Re-Imports only
RE   Re-Exports only
RIE  Re-Imports and Re-Exports in the same report
RTB  Re-Exports – Re-Imports
RTT  Re-Exports + Re-Imports
NI   Net Imports
NE   Net Exports
NIE  Net Imports and Net Exports in the same report
NTB  Net Exports – Net Imports
NTT  Net Exports + Net Imports
```

default value if missing/not set: not allowed.

description: This parameter defines the tradeflow of interest.

Please note:
Only ONE value is allowed, i.e. the different values (even if they are all import or export) can NOT be combined in a call!

7.19 includeotherpartners
Include all other partner countries.

allowed values: true false

default value if missing/not set: false

description: If partner countries are filtered using a list of countries or country groups, then it is possible to list all other countries as well by specifying this parameter to true. If it is set to false, then only the countries defined in the partner country parameters will be listed in the data set. This parameter is typically used in conjunction with *accumulateotherpartners* (chapter 7.2).

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7.20 lang

allowed values: `en de fr zh_CN es hi ja`

default value if missing/not set: `en`

description: `Defines the language used for the translation of the country names and commodity descriptions.`

7.21 latestavailablemonths

allowed values: `positive number from 1 to max 36 months`

default value if missing/not set: -

(please note: one of either "`from`", "`latestmonths`" or "`latestavailablemonths`" is required; if both parameters are set, "`latestavailablemonths`" has precedence!)

description: `Selects the latest N available months for the specified reporters.`

7.22 latestmonths

allowed values: `positive number from 1 to max 36 months`

default value if missing/not set: -

(please note: one of either "`from`", "`latestmonths`" or "`latestavailablemonths`" is required; The parameter "`latestavailablemonths`" has precedence over "`latestmonths`".)

description: `Selects the latest N months back from the current month – or if "`**`to`**`" is set: the latest N months back from "to"`
`Example: to=2018-12 latestmonths=6. Will get data from 2018-06 to 2018-12`

7.23 layout

allowed values: `default brief`

default value if missing/not set: `default`

description: `If the 'default' layout is specified, the column headers in CSV and Excel formats and property values in the JSON format are verbose, human readable and translated to the language, defined in the 'lang' parameter. This layout is mainly intended to be used with the CSV and Excel formats, but can be used with JSON as well:`
`"Trade flow", "Period Type", "Year", "Month", "Reporter", "Partner", "HS Code", "Commodity Description", "Currency", "Value", "Unit1", "Quantity1", "Unit2", "Quantity2"`

`The 'brief' layout is mainly intended for the JSON format and will produce the fixed property names (or column headers):`
```
{
  "tradeFlow": "import",
  "periodType": "MONTH",
  "year": 2016,
  "month": 1,
  "reporterCode": "BR",
  "reporterName": "Brasilien",
  "partnerName": "world",
  "hsCode": "84",
  "commodityDescriptionOriginal": "NUCLEAR REACTORS, BOILERS, MACHINERY AND
MECHANICAL APPLIANCES; PARTS THEREOF",
  "commodityDescriptionTranslation": "KERNREAKTOREN, Kessel, Maschinen und
mechanische Geräte DAVON",
  "currency": "USD",
```

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```
    "value": 491008922,
    "unit1": "KG",
    "quantity1": 25716978,
    "unit2": "KGL",
    "quantity2": 25716978
}
```
The default set of the report fields can be overridden with the 'field'
parameter (see 7.11 above).
Attention: If the 'layout' and 'field' parameters are missing and the JSON
format is requested, the report will be generated in a legacy JSON format,
used in the versions 1.16.x and earlier.
It is discouraged to skip the 'layout' parameter and use the the legacy JSON
format – it might not be supported in future.

7.24 maxQ1
allowed values: any number

default value if missing/not set: not used

description: If specified, the generated report will contain only trade data with
the quantity1 numbers less or equal to the provided number.

7.25 maxQ2
allowed values: any number

default value if missing/not set: not used

description: If specified, the generated report will contain only trade data with
the quantity2 numbers less or equal to the provided number.

7.26 maxV
allowed values: any number

default value if missing/not set: not used

description: If specified, the generated report will contain only trade data with
the value numbers less or equal to the provided number.

7.27 metadata
allowed values: true false

default value if missing/not set: false

description: If set to true, metadata of the generated report will be added as
well.
Attention: metadata is ONLY supported in JSON and XLSX format but not in
CSV!

7.28 minQ1
allowed values: any number

default value if missing/not set: not used

description: If specified, the generated report will contain only trade data with
the quantity1 numbers greater or equal to the provided number.

7.29 minQ2
allowed values: any number

default value if missing/not set: not used

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description: `If specified, the generated report will contain only trade data with the quantity2 numbers greater or equal to the provided number.`

7.30 minV

allowed values: `any number`

default value if missing/not set: `not used`

description: `If specified, the generated report will contain only trade data with the value numbers greater or equal to the provided number.`

7.31 mirrored

allowed values: `true false`

default value if missing/not set: `false`

description: `This parameter defines whether the data should be generated as a mirrored data set (set to true) or as reported (set to false)`

7.32 mirrormissingperiods

allowed values: `true false`

default value if missing/not set: `false`

description: `This parameter allows to use the mirror data if the country specified in the 'reporter' parameter (see 7.36 below) does not provide the trade data for some of the requested periods.`

7.33 onlycompleteperiods

allowed values: `true false`

default value if missing/not set: `false`

description: `include only the periods for which all reporters have complete data (typically used for Eurostat data)`

7.34 partner

allowed values: `Comma or semicolon separated list of Geonom alpha-2 codes or GTT country group names.`

see http://ec.europa.eu/eurostat/ramon/other_documents/geonom/index.htm `for` `a list of codes.`

default value if missing/not set: `all countries`

description: `This parameter allows to filter the trade to only some partner countries - which can be a list of countries (i.e. country codes) or one or more country groups.`

7.35 periodtype

allowed values: `Supported values are:`

M	`monthly data`
Y	`yearly data`
Q	`quarterly data`
S	`semester data`
YTD	`year-to-date`

default value if missing/not set: `computes period type based on values, or "M"`

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description: `This parameter defines the level of time aggregates for the data set.`

7.36 reporter
Required parameter.

```
Comma or semicolon separated list of Geonom alpha-2 codes
(http://ec.europa.eu/eurostat/ramon/other_documents/geonom/index.htm) or GTT
country group names.
Some of the reporting countries have several sets of the trade data. It is
possible to select the specific trade data by appending the suffix to the
country code.
E.g. 'FR_customs' specifies the trade data provided by the national
statistics office, 'FR_eurostat' specifies the data provided by Eurostat.
If the reporting country has several sets of the trade data, it will be
specified several times in the list of countries provided by the 'Available
Countries' end-point (see 4.2 above) with the respective suffixes in the
'reportercode' property.
```

7.37 requirealldatareported
allowed values: `true false`

default value if missing/not set: `true`

description: `if set to false - allow periods for which not all members in the accumulated reporter country groups have the data.`

7.38 source
allowed values: Supported values are
```
                                DEFAULT
                                NATIONAL
                                EUROSTAT
                                COMTRADE
```
(Please note: COMTRADE as source is only accessible with an additional subscription and provides only yearly data for approx. 80 countries)

default value if missing/not set: `DEFAULT`

description: `This parameter defines the source of the data. For some European countries there are two sources available (e.g. France, Germany, etc.). NATIONAL will provide the national statistics data while EUROSTAT will provide the one from Eurostat. The value DEFAULT has the same effect as NATIONAL. If the country group is specified as the reporter, and the data for the requested source is not available for some of the group countries, the other source will be used. This parameter cannot be used together with the 'filterbysource' parameter (see 7.13 above).`

> **PLEASE NOTE:** `This parameter is used **only** if the reporter code is specified without suffix (i.e. without e.g. "FR_eurostat" or FR_customs".`

> **Please note:**
> Source COMTRADE is **not** available with the regular subscription!
> If you do not have the extra COMTRADE subscription, the request will end with an error.
>
> Source COMTRADE provides only YEARLY data for approx. 80 countries and will not work if monthly data or data with extra information (e.g. "means of transport", states, provinces etc.) is requested!

7.39 to
allowed values: `The end of the date period. This parameter must`

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```
be in the format YYYY-MM or YYYYMM. If yearly
data is requested (chapter 7.17) then the date
can be in the format YYYY.
```

default value if missing/not set: `implicitly selects the current (latest) month`

description: `This parameter defines the end date for which data should be considered to, resp. if used in conjunction with the "latestmonths" parameter defines the end date for the selected N latest months.`

7.40 token
allowed values: `If the received Token is not part of the request HEADER ("Authorization: Bearer NNMMKKLL11WW…") the token must be added to the POST or GET request as parameter.`

default value if missing/not set: `not allowed`

description: `This parameter is necessary for the authentication and authorization to generate a GTT data set.`

7.41 tradedetails
allowed values: `The allowed values are the the fields in the country information 'supplementaryInfo` field (see 4.2` Available Countries `above). For example: PORT SUBDIVISION TRANSPORT`

default value if missing/not set: `no supplementary information returned`

description: `When specified, this parameter will trigger the generation of additional trade information such as port etc. Please note: Only a certain number of countries report this type of information. Please refer to the data availability list to get the different countries and their supplementary data elements.`

7.41.1 Create the report data only for the certain trade details
In addition to (or instead of) the `tradedetails` parameter it is possible to specify one or several of the following parameters:
- `SUBDIVISION`
- `PORT`
- `TRANSPORT`
- `CUSTOMS_REGIME`
- `FOREIGN_PORT`
- `FOREIGN_SUBDIVISION`

Allowed values: `Comma or semicolon separated list of numeric ids. The available numeric ids can be obtained from the 'available trade details' URL (chapter 4.3). If the list of the numeric ids is specified, the report will contain only the trade data with the respective trade details.`

7.42 unit
allowed values: `The following values are allowed:`
```
                GR   Grams
                OZ   Ounces
                OZT  Ounces(troy)
                LBT  Pounds(troy)
                LB   Pounds
                KG   Kilograms
```

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```
CWT  Hundredweight
STN  Short tons
MT   Metric tons
LTN  Long tons
KT   Kilo tons
L    Litre
M3   Cubic meter
KM3  Cubic kilometer
CM2  Square centimeter
M2   Square meter
CM   Centimeter
M    Meter
KM   Kilometer
NO   Number
PAR  Pair
DZN  Dozen
HUN  Hundred
THS  Thousand
User defined units
```

default value if missing/not set: `Original Units`

description: `When specified then units will be converted to the specified unit if the reported unit can be converted. Otherwise the original unit will be reported.`

Please note: if a certain unit was requested (e.g. `unit=KG`) but the data in question was reported in a unit which may **not** be converted to KG or was simply declared as "unspecified unit" or "unknown" or "X" etc. it is **NOT** possible to convert this data to the requested unit.
In such a case the API will return several columns/entries with the different (reported and/or missing) units.

7.43 unitpreferred
allowed values: `The following values are allowed:`
```
        GR   Grams
        OZ   Ounces
        OZT  Ounces(troy)
        LBT  Pounds(troy)
        LB   Pounds
        KG   Kilograms
        CWT  Hundredweight
        STN  Short tons
        MT   Metric tons
        LTN  Long tons
        KT   Kilo tons
        L    Litre
        M3   Cubic meter
        KM3  Cubic kilometer
        CM2  Square centimeter
        M2   Square meter
        CM   Centimeter
        M    Meter
        KM   Kilometer
        NO   Number
        PAR  Pair
        DZN  Dozen
        HUN  Hundred
        THS  Thousand
        User defined units
```

default value if missing/not set: `no preferred quantity units returned`

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description: When specified then either primary or seconday units will be
converted to the specified unit if the it can be converted. Otherwise the
original primary unit will be reported.

7.44 updatedAfter

allowed values: Timestamp in one of the formats:
- yyyy-MM-ddTHH:mm:ssZ
- yyyy-MM-dd (will become yyyy-MM-ddT00:00:00 internally)
- yyyy-MM (will become yyyy-MM-01T00:00:00 internally)
- yyyy (will become yyyy-01-01T00:00:00 internally)

default value if missing/not set: -

description: If this parameter is specified, the report will contain only trade
data which was added or updated after the specified date and time.
If the time is specified, it is also recommened to explicitly define the
timezone. Various timezene formats are supported. E.g.:
- 2023-10-12T10:15:30Z
- 2023-10-12T10:15:30GMT
- 2023-10-12T10:15:30UTC
- 2023-10-12T12:15:30CET
- 2023-10-12T11:15:30+01:00
- 2023-10-12T12:15:30GMT+02:00
- 2023-10-12T12:15:30UTC+02:00
- 2023-10-12T12:15:30Europe/Paris
- 2023-10-12T12:15:30[Europe/Paris]
If the timezone is not specified, Central European Time is used by default.

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