

REPORTING GUIDELINES



These guidelines provide the Contracting Party and/or its Affiliates with more detailed information on how to fulfil their market data reporting obligations to Euronext, as described in the EMDA Reporting Policy, as per 1 February 2019. This EMDA Reporting Policy, which forms part of the Euronext Market Data Agreement (EMDA) and other documentation are available [here](#). For more information, please e-mail databyeuronext@euronext.com.

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INTRODUCTION TO THE REPORTING REQUIREMENT

The EMDA Reporting Policy, which forms part of the EMDA, sets out the Contracting Party’s reporting obligation for:

- its internal distribution and display use of real-time market data.
- its redistribution of market data to its subscribers and/or sub vendors.
- its redistribution of market data to its subscribers that have been approved for natural user.
- its redistribution of market data as part of managed non-display use services.
- its redistribution of market data as part of an ASP Service or ESP Service to trading members.
- its redistribution of market data as part of White Label Services.

The tables below provide an overview of your reporting and declaration obligations as a Contracting Party.

MONTHLY REPORTS (SUBMITTED VIA TCB) – EMDA Reporting Policy	
WHAT	A monthly electronic report submitted via TCB Data, indicating <ul style="list-style-type: none"> ■ the Contracting Party and its Affiliates employees’ ability to access real-time market data for display purposes; and ■ its subscriber’s (employees) ability to access real-time market data for display purposes (Note, excluding the Non-Display Use of Real Time Information)
WHEN	Each month, within 15 days after the end of each calendar month. ----- Your first report should be submitted within 15 days after the calendar month in which you provide a device/user access to real-time market data.
FREQUENCY	Monthly
REPORTABLE UNIT/UNIT OF COUNT	Each User per Source with the ability to access real-time market data, where ‘User’ refers to a natural person and ‘Source’ refers to each separate data feed product from an Information Supplier or, in case of a direct connection, Euronext. Each Device with the ability to access real-time market data where a device cannot be allocated to a natural person. (Note, simultaneous access on such Device is not permitted). <i>(Note, Non-Display Use is covered in the EMDA Use Policy, which forms part of the EMDA)</i>
FEES	Monthly fees are applicable to each reportable unit with the ability to access real-time market data. The applicable fees are outlined in the Information Product Fee Schedule available here .
HOW	Monthly electronic reports should be submitted via TCB Data at http://www.tcbdata.com/
MORE INFORMATION	For more information please click here .

MONTHLY REPORTS (SUBMITTED VIA TCB DATA)

This section provides more detailed information on how to fulfil your reporting obligation to Euronext as described in the EMDA Reporting Policy, which forms part of the EMDA.

TCB DATA

When your organization enters into the EMDA and access to real-time market data commences:

- Euronext will set-up a TCB Data Systems Account for you to allow you to report electronically. Log-in details will be provided to you by e-mail.
- Euronext will set-up the appropriate market data products and corresponding product codes under that TCB Data Systems account.

You will then be able to complete and submit electronic reports through TCB Data Systems under an account set-up by Euronext. Please do not forget to confirm the details entered prior to submitting a report to Euronext.

DISPLAY USE OF REAL TIME MARKET DATA

The EMDA Reporting Policy, which forms part of the EMDA sets out your reporting obligation for real-time market data access for the purpose of displaying such market data. Note, it excludes non-display use which must be licenced via the Order Form and therefore does not need to be reported via TCB Data Systems. For more information about licensing your non-display use please refer to the clauses set out in the EMDA Use Policy.

MARKET DATA DISPLAY USE FEES

You will be charged for the right to display real-time market data. The fees outlined in the Information Product Fee Schedule are applicable per reportable unit (i.e. User per Source or Device, whichever is applicable) with the ability to access such [Euronext Market Data Product](#) (i.e. you will be charged based on your report). For the Information Product Fee Schedule please refer to our [Market Data Website](#).

These monthly market data display use fees are only waived where your own use of real time market data is for the sole purpose of monitoring and maintenance of your systems and/or development, marketing, training and/or demonstration of your devices and applications (i.e. your operational use), provided that:

- This use of real-time market data is solely in support of your real-time market data redistribution and not as part of any other commercial or other business functions and/or solely in support of your trading activities on Euronext markets and not as part of any other commercial other business functions; and

- That you report such operational use of real-time market data to Euronext in accordance with the EMDA Use Policy and these reporting guidelines.

WHAT TO REPORT VIA TCB DATA

You should report your own display use and/or your subscriber's display use of real-time market data by completing and submitting a monthly electronic report via <http://www.tcbdata.com/>. For this purpose, you should count and report the number of reportable units (users per source and/or devices, whichever is applicable) with the ability to access real-time [Euronext Market Data Products](#) within a calendar month, per location/subscriber.

UNIT OF COUNT

For your organization's own accesses you should report the number of Users per Source with the ability to access real-time market data. 'User' refers to a natural person and 'Source' refers to each separate datafeed product from an Information Supplier. Netting between different sources is not permitted. For more information about the User per Source unit of count please [click here](#). Where you cannot allocate a device or application to a natural person you should report the device or application. Note, simultaneous access on such device is not permitted. For your subscriber's accesses to information supplier-controlled market data you should report each Device. For your subscriber's accesses to recipient-controlled market data you should report the information provided by such subscriber via a datafeed access declaration.

WHEN TO REPORT VIA TCB DATA

You have to complete and submit a monthly electronic report via TCB Data Systems' website. Your initial report should be submitted within 15 days after the calendar month in which your organization's access to real-time market data commences. Subsequently you should report each calendar month within 15 days after a reporting period. The table below uses the year 2019 as an example to illustrate the reporting deadlines. The same day and month will apply for the years following.

SUBMIT THE REPORT OF...	BEFORE... (I.E. REPORTING DEADLINE)
January 2019	16 February 2019
February 2019	16 March 2019
March 2019	16 April 2019
April 2019	16 May 2019
May 2019	16 June 2019
June 2019	16 July 2019

SUBMIT THE REPORT OF...	BEFORE... (I.E. REPORTING DEADLINE)
July 2019	16 August 2019
August 2019	16 September 2019
September 2019	16 October 2019
October 2019	16 November 2019
November 2019	16 December 2019
December 2019	16 January 2020

As a delay in your reporting causes a disruption of Euronext’s standard processes, Euronext may charge for compensation if you do not submit your report before the reporting deadline. For more information we refer to clause 3.3 of the EMDA Reporting Policy.

HOW TO REPORT VIA TCB DATA

You may report via TCB Data Systems’ reporting tool SOLAR (Subscriber Online Activity Reporting System) and/or usage and non-pro reporting. You can enter data into SOLAR **(A)** via the graphic user interface or **(B)** via a file upload (a .xls or .csv file). For more information please go to <https://www.tcbdata.com/index.cfm>.

You can **(A)** manually report for each main location through SOLAR and/or **(B)** report through SOLAR via a spreadsheet your:

- Internal distribution and use (including your operational use)
- Subscriber’s access (except non-professional subscribers and page views)
- Sub vendor’s access
- Subscriber’s access that are approved to report natural user
- Provision of managed non-display services
- Provision of ASP services /ESP services to trading members
- Provision of White Label Services

You should use **(C)** the ‘Usage and Nonpro Reporting’ link to report:

- Non-professional subscribers
- Page views

For the creation of reports for white label services, please contact databyeuronext@euronext.com.



Euronext Test Vendor (ETV)

Euronext Test Vendor > Home

Profile & Communications

- [Login Home](#)
- [Users & Contacts](#)
- [Provider Contacts](#)
- [Processed Report Notification](#)
- [View Active Products](#)
- [Send Group Email to Providers](#)
- Reporting
- [SOLAR](#)
- [Subscriber Report File](#)
- [Usage & Nonpro Reporting](#)
- Report & Utilities
- [Invoices](#)
- [Reporting History](#)
- [Reporting Status](#)
- [File Upload History](#)
- [Product Code Maintenance History](#)
- Support
- [Tcbdata.com FAQ](#)
- [Documentation](#)
- [Contact TCB Data Systems](#)

Current Subscriber & Usage Status

Last Report Received: 2019/01/10 Next Report Due: 2019/02/15

TCB Data Quicklinks

Links to common functions, also found in the menu on the left.

Solar Tools

- [View Main Locations](#)
- [Spreadsheet Template](#)
- [Update SOLAR via Spreadsheet](#)
- [Update SOLAR via Vrf file](#)
- [File Upload History](#)

- [Reporting History](#)
- [Activity Report](#)
- [Pending Activity Report](#)
- [Total Inventory Report](#)
- [Revenue Report](#)

Subscriber Reporting

- [Validate a VRF File](#)
- [Upload VRF File](#)

Usage & Nonpro Reporting

- [Enter Activity](#)

Your Account

- [Users & Contacts](#)
- [Change Your Password](#)

Recently Processed Reports:

Provider	Sequence	Date
EN	99	2019.01.10
EN	98	2019.01.04
EN	97	2018.12.10
EN	96	2018.11.15
EN	95	2018.10.25
EN	94	2018.10.22
EN	93	2018.10.11
EN	92	2018.07.16
EN	91	2018.06.27
EN	89	2018.04.12

[view more history](#)



A. REPORTING ACCESS (EXL. NON-PROFESSIONAL SUBSCRIBERS AND PAGE VIEWS - MANUALLY)

In this section will be described how to report your report manually in TCB Data.com, excluding the non-professional subscribers and page views.

A1. CREATE A NEW LOCATION

Note, you should report the number of reportable units with the ability to access a particular Euronext Market Data Product under an unique location account number. In order to do so you can create 'Main Locations' in accordance with clause 4 of the EMDA Reporting Policy.

The Main Location details (i.e. name, address, city, etcetera) should be that of:

- your organization (internal distribution and use)
- your subscribers (subscriber access)
- your information suppliers or sub vendors (redistributor access)
- your members (the organizational entity of the Member's group, per country i.e. member access)

1



SOLAR Accounts

Find Acct

Add New Main Location

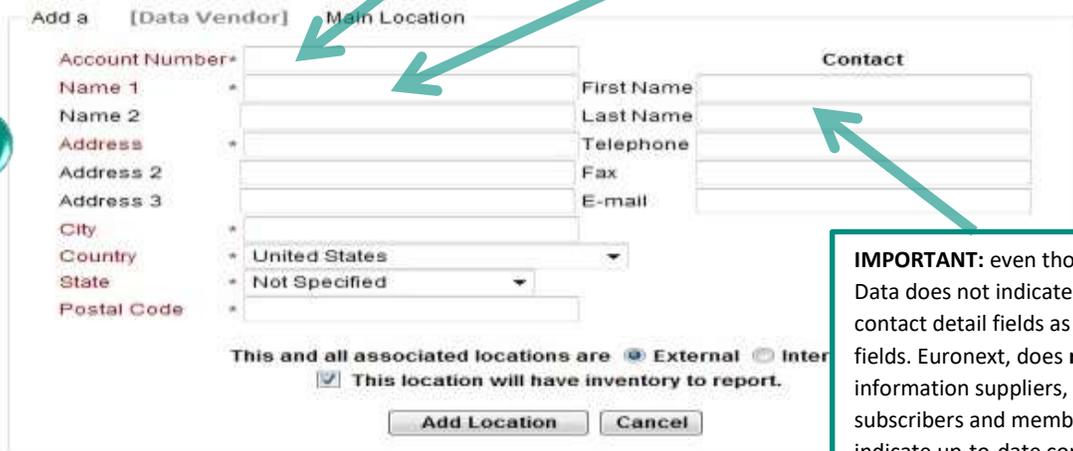
View Main Locations

Vendor Summary Page

IMPORTANT: the name of a 'Main Location' should always be the statutory name of the applicable organizational entity of the Member's group. (i.e. if the organizational entity's statutory name is 'ABCD Ltd.' Please include that in full and not just 'ABCD')

Assign a **unique** identifier (location account number) by which you can identify the main location. A maximum of 10 characters.

2



Add a [Data Vendor] Main Location

Account Number*

Name 1 *

Name 2 *

Address *

Address 2 *

Address 3 *

City *

Country *

State *

Postal Code *

First Name

Last Name

Telephone

Fax

E-mail

Contact

This and all associated locations are External Internal

This location will have inventory to report.

Add Location Cancel

IMPORTANT: even though TCB Data does not indicate the contact detail fields as required fields. Euronext, does **require** its information suppliers, subscribers and members to indicate up-to-date contact details for each Main Location.

When you create a main account for the first time you will get the following pop up.

Set Membership Status for Account

Some exchanges require that a membership status be set for each account. There are three potential statuses: **Member**, **Non-member**, and **Private investor**. Additionally, you can set a **Not specified** status for those exchanges that do not specifically require the status to be reported. **The membership status determines the product rates charged by exchanges who require this information.**

Please select the membership status of Account for the following exchanges:

Euronext - EN (EN)

This account's membership status for Euronext - EN is:

*Ignoring all future status requests will set all membership statuses to **Not specified**, and you will not be asked to set the statuses for exchanges that do not explicitly require this information in submitted reports in the future.

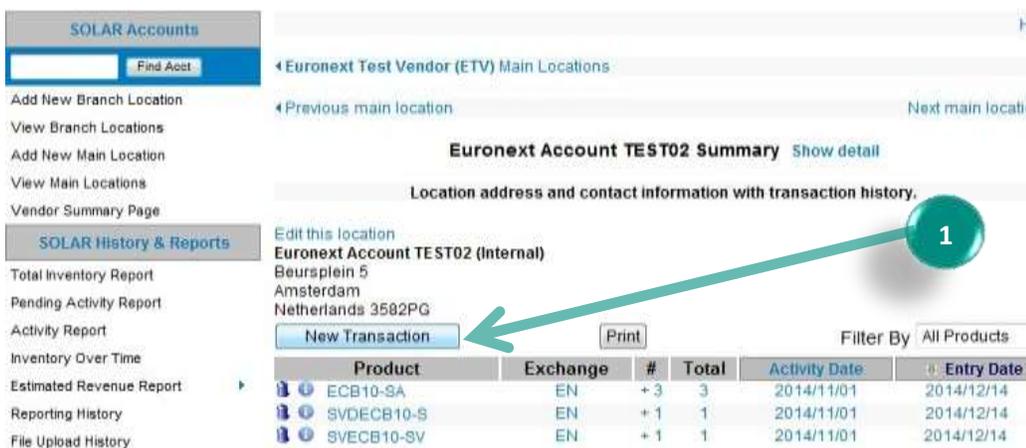
You can leave it to **Not specified** and click 'Ignore future status requests'. Euronext is not using this information and therefore it is not necessary to specify the account.

A2. CREATE TRANSACTIONS

Once the Location has been created you can add inventory (number of reportable units) under said Location. Select the relevant Location from the Main Locations list. Once on said Location's page you can select '**New Transaction**' to add inventory.

For each Main Location you should report the number of reportable units with the ability to access Euronext Market Data per Euronext Market Data Product during a calendar month. You can select the relevant Euronext Market Data Product(s) via the tick boxes appearing in the first step of creating a new transaction.

For more information about Euronext Market Data Product(s) please [click here](#). If a product is missing in the list please contact databyeuronext@euronext.com.



Euronext Account TEST02 Summary Show detail

Location address and contact information with transaction history.

Edit this location
Euronext Account TEST02 (Internal)
 Beursplein 5
 Amsterdam
 Netherlands 3502PG

Product	Exchange	#	Total	Activity Date	Entry Date
<input checked="" type="checkbox"/> ECB10-SA	EN	+3	3	2014/11/01	2014/12/14
<input checked="" type="checkbox"/> SVDECB10-S	EN	+1	1	2014/11/01	2014/12/14
<input checked="" type="checkbox"/> SVECB10-SV	EN	+1	1	2014/11/01	2014/12/14

The '#' column, indicates the reported **change** in the applicable number of units of count on a particular date, i.e. the '**Activity Date**'. The new/resulting total inventory will show in the '**Total**' column.

The '**Entry Date**' indicates when the change was entered into SOLAR.

New transaction(s) for Account TEST02

Enter the transaction details in the form below. By selecting more than one product has been previously reported, its current total will appear in grey. If the total is red, it is pending activity. Products that are gray will not be reported.

1) Select products for transaction Select All Products

<input type="checkbox"/> Euronext - EN (EN) - Membership Not S	<input type="checkbox"/> ECB10-DF	<input type="checkbox"/> ERPXW-DF
<small>Euronext Cash - Level 2 Device (DF)</small>	<small>Euronext Real Time Reference Price - All Markets</small>	

2) Enter the number of units for this transaction as a positive or negative number

Change Quantity (Enter a negative number for a decrease)

3) Select an activity date up to the first day of next month:

January 1 2015 **Activity Date**

4) Enter an optional internal Customer ID:

Customer ID (optional)

5) Enter an optional comment:

Comment
Maximum 70 characters

1

Step 1: Select the Euronext Market Data Product for which you want to report in numbers (i.e. that you would like to add or remove under this Main Location, i.e. this organizational entity).

IMPORTANT:

- When you are reporting the ability to access a Euronext Market Data Product by your subscribers, make sure to report the product codes that have the suffix '-SA' and/or '-DF', whichever is applicable.
- When you are reporting a sub vendor, make sure to report the product codes that have the suffix '-SV'.
- When you are reporting the ability to access a Euronext Market Data Product for your organization **or** to access the Euronext Market Data Product for internal use by the member's group, make sure to report such access under the product codes that have the suffix '-IU'.
- When you (an ASP/ESP provider) are reporting access to a Euronext Market Data Product for a trading member, make sure to report such access under the product codes that start with 'TM' and have the suffix '-TM'.
- For more applicable product codes we refer to [Appendix 3](#).

(Note, your use which meets all requirements for operational use, may be reported under product codes that have the suffix '-OPS'. For more information, please contact marketdataoperations_team@euronext.com).

2

Step 2: IMPORTANT: You should enter change in the total number of reportable units to Euronext market data in a calendar month compared to the **total** number of reportable units of the previous calendar month. The current number of reportable units is mentioned in grey and within brackets behind the product (code), where (1 or more) means ability to access and (0) means no ability to access.

- If there was no ability to access the product in the previous month (total inventory = (0)) and access is given, enter the number of reportable units with the **Activity Date:** 1st of the calendar month in which access to that product was given.
- If there was an ability to access the product in the previous month (total inventory > (1)) and the **total** number of reportable units in this calendar month is higher than in the previous month, enter the number of additional reportable units compared to that previous month with the **Activity Date:** 1st of the calendar month in which there was a change to the **total** number reportable units for that product.
- If there was an ability to access the product in the previous month (total inventory > (1)) and the **total** number of reportable units in this calendar month is lower than in the previous month, enter minus the number of reportable units compared to that previous month with the **Activity Date:** 1st of the calendar month in which there was a change to the **total** reportable units for that product.

3

Step 3: Example Activity Date:

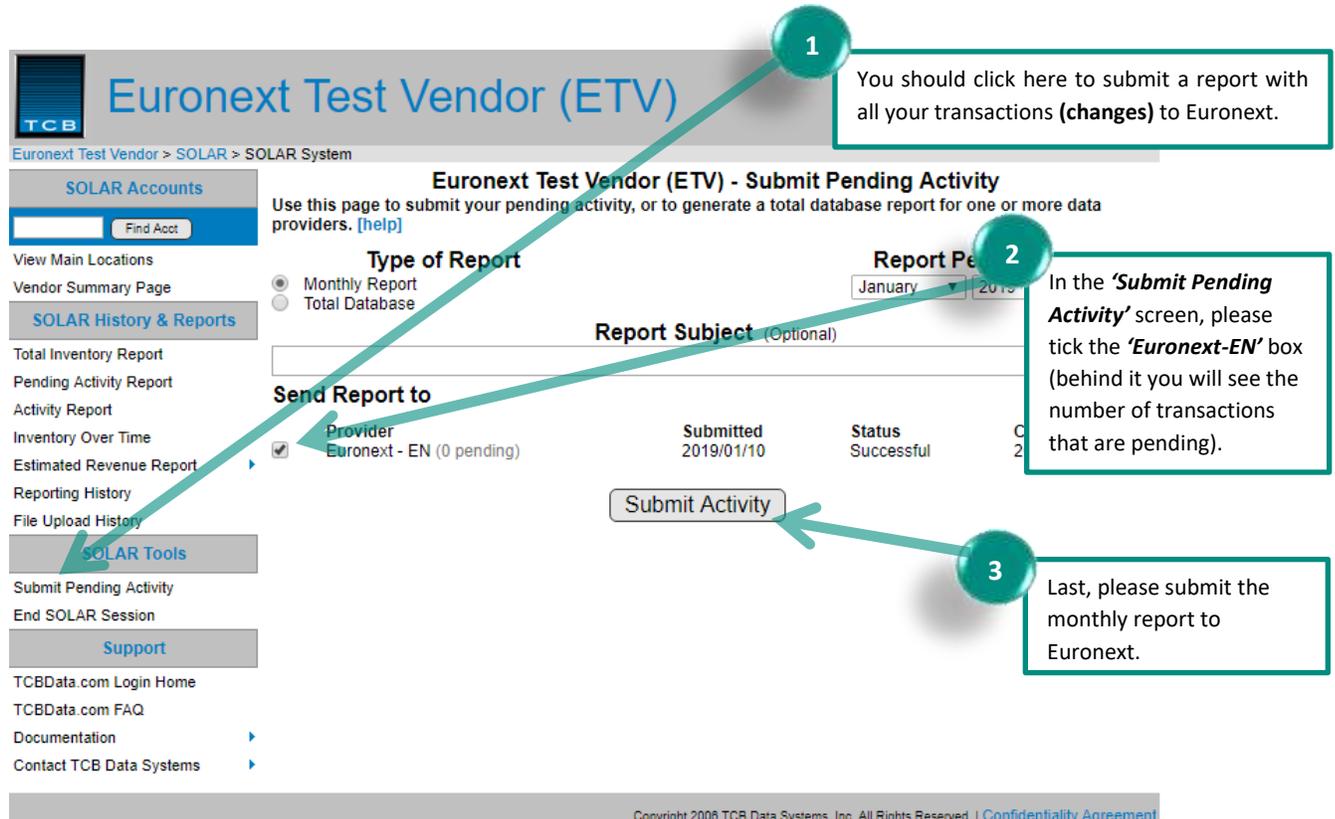
When you are reporting a **change** in the **total** number of **reportable units** at the Main Location that is applicable to January 2015, you should enter the activity date January 1, 2015.

4

Step 4 and 5: These two steps are not compulsory therefore you can go to click the button '**Create Transaction**'.

A3. SUBMITTING REPORTS

After you have created the transactions, you should submit your transactions to Euronext via the **'Pending Activity'** screen, via the **'Submit Activity'** button.



1 You should click here to submit a report with all your transactions (**changes**) to Euronext.

2 In the **'Submit Pending Activity'** screen, please tick the **'Euronext-EN'** box (behind it you will see the number of transactions that are pending).

3 Last, please submit the monthly report to Euronext.

Please note, when you have **no changes** at all in a calendar month, or in other words, when your usage is the same as previous calendar month, you do not need to create any **'New Transaction'**. You can submit your report directly via the **'Submit Pending Activity'** screen, via the **'Submit Activity'** button.

For more information on how to report please refer to <http://www.tcbdata.com/> or email marketdataoperations_team@euronext.com.

Note, if you are unable to report based on the total number of reportable units, i.e. need to report all additions and deletions of reportable units during a calendar month, please contact marketdataoperations_team@euronext.com for further guidance on how to report.

B. REPORTING ACCESS (EXL. NON-PROFESSIONAL SUBSCRIBERS AND PAGE VIEWS – SPREADSHEET UPLOAD)

In this section will be described how to report your report via a spreadsheet upload in TCB Data.com, excluding the non-professional subscribers and page views.

B1. CREATING MAIN LOCATIONS

When using the upload functionality in SOLAR, new Locations are created by including them in your upload. Changes in inventory for any relevant Locations should be added in the relevant columns in the upload.

B2. ADDING INVENTORY VIA THE UPLOAD SHEET

For the required format of the xls upload please see below (*colored fields are required*):

A completed spreadsheet can be uploaded into SOLAR via the **'Update SOLAR via File → Update Via Spreadsheet'**.

COLUMN	HEADER	CONTENT
A	Account	Enter the unique identifier (Location Account Number) by which you can identify the main location. Clause 4 of the EMDA Reporting Policy indicates the basic requirements for when the creation of a separate main location is necessary.
B	PAccount	Copy the 'Account' number.
C	ShortName	
D	Name1	Enter your organization's statutory name (if internal distribution and use). Enter your subscriber's statutory name (if subscriber access). Enter your information supplier's or sub vendor's statutory name (if redistributor access). IMPORTANT: the name of a 'Main Location' should always be the statutory name of the applicable organizational entity of the Member's group. (I.e. if the organizational entity's statutory name is 'ABCD Ltd.' Please include that in full and not just 'ABCD').
E	Name2	
F	Address1	Enter the applicable address.
G	Address2	
H	Address3	
I	City	Enter the applicable city.
J	State	Enter the applicable state. Only required if the country is the United States.
K	PostCode	Enter the applicable post code / ZIP code.
L	Country	Enter the applicable country.
M	LocType	Internal or External.

N	ContactLName	<p>Enter the last name of this location's contact person.</p> <p>IMPORTANT: even though TCB Data does not indicate the contact detail fields as required fields. Euronext, does require its information suppliers and subscribers to indicate up-to-date contact details for each Main Location.</p>
O	ContactFName	<p>Enter the first name of this location's contact person.</p> <p>IMPORTANT: even though TCB Data does not indicate the contact detail fields as required fields. Euronext, does require its information suppliers and subscribers to indicate up-to-date contact details for each Main Location.</p>
P	TelNo	Enter the telephone of this location's contact person.
Q	FaxNo	Enter the fax of this location's contact person.
R	Email	Enter the e-mail of this location's contact person
S	EffDate	<p>Enter the Activity Date. This is the month in which you want to apply a change in the total number of reportable units with access to real time market data (i.e. when you are reporting a change in the number of applicable units of count at the Main Location compared to the previous month for 1 January 2018. You should enter the Activity Date January, 1, 2018).</p>
T	Product	<p>Enter the applicable product code to which you want to apply a change in the number of applicable units of count (i.e. the quantity).</p> <p>IMPORTANT: When you are reporting the ability to access a Euronext Market Data Product by your subscribers, make sure to report the product codes that have the suffix '-SA' and/or '-DF', whichever is applicable. When you are reporting an information supplier, make sure to report the product codes that have the suffix '-SV'. When you are reporting the ability to access a Euronext Market Data Product for your organization make sure to report such access under the product codes that have the suffix '-IU'.</p> <p>For more applicable product codes we refer to Appendix 3.</p> <p>(Note, your use which meets all requirements for operational use, may be reported under product codes that have the suffix '-OPS'. For more information, please contact marketdataoperations_team@euronext.com)</p> <p>For more information about Euronext market data products and product codes please click here or contact databyeuronext@euronext.com.</p>
U	CurrentTotal	Enter the current total inventory known by SOLAR for this particular main location and product. Note, in case of an initial report for a location or market data product, the current total is 0 (zero).
V	ChangeQty	<p>You should report change in the total number of reportable units to Euronext market data in a calendar month compared to the total number of reportable units of the previous calendar month. The current number of reportable units is mentioned in grey and within brackets behind the product (code), where (1 or more) means ability to access and (0) means no ability to access.</p> <ul style="list-style-type: none"> ■ If there was no ability to access the product in the previous month (total inventory = (0)) and access is given, enter the number of reportable units with

		<p>the Activity Date: 1st of the calendar month in which access to that product was given.</p> <ul style="list-style-type: none"> If there was an ability to access the product in the previous month (total inventory > (1)) and the total number of reportable units in this calendar month is higher than in the previous month, enter the number of additional reportable units compared to that previous month with the Activity Date: 1st of the calendar month in which there was a change to the total number reportable units for that product. <p>If there was an ability to access the product in the previous month (total inventory > (1)) and the total number of reportable units in this calendar month is lower than in the previous month, enter minus the number of reportable units compared to that previous month with the Activity Date: 1st of the calendar month in which there was a change to the total reportable units for that product.</p>
W	NewTotal	Enter the resulting (new) total inventory for this particular Main Location and product.

Update SOLAR via Excel Spreadsheet

SOLAR Accounts

Find Acct

View Main Locations

Vendor Summary Page

SOLAR History & Reports

Total Inventory Report

Pending Activity Report

Activity Report

Inventory Overview

Estimated Revenue

Reporting History

File Upload History

SOLAR Tools

Update SOLAR via File

Revert to Last Processed

Submit Pending Activity

End SOLAR Session

Support

TCBData.com Login Home

TCBData.com FAQ

Documentation

Contact TCB Data Systems

Click on the button next to the **File Name** label to open a dialog box and select a file.

Click the **Upload File** button and the file will be uploaded.

This may take several minutes to complete depending on the size of the file and the bandwidth of your connection.

Only files with a .xls or .csv extension will be accepted.

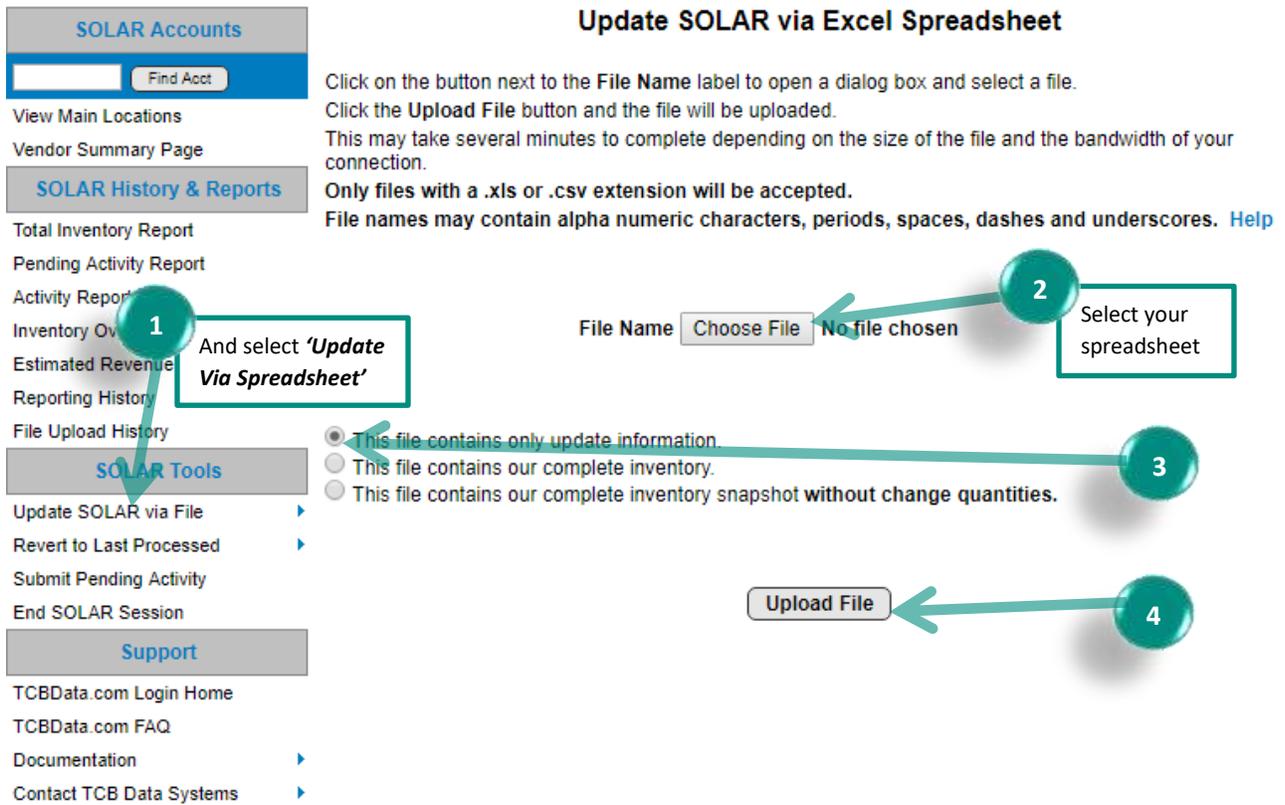
File names may contain alpha numeric characters, periods, spaces, dashes and underscores. [Help](#)

File Name No file chosen

This file contains only update information.

This file contains our complete inventory.

This file contains our complete inventory snapshot without change quantities.



When you upload a file, the TCB Data site will proceed and validate your upload. It validates in two steps. The first step is 'File Structure' which checks file format and whether or not all required fields have been filled in. The second step is 'Calculated Account Totals' which checks whether the Transaction information fits with

previously reported numbers. Once the upload passes the TCB Data site validation you can choose to proceed by applying the transactions (via the button **'Apply Transactions'**) which puts the information in the upload onto SOLAR.

Update SOLAR via Excel Spreadsheet

Your file is validated by verifying its structure and comparing the potential account totals with the existing transactions in the database. If a problem is encountered, you will find the errors listed below. If no errors are found, click the **Apply** button to commit the transactions to the database. [\[more...\]](#)

Status for file **Solar_SingleProductColumn Upload EURONEXT - ETV test upload screenshot.xls** processed on Feb 14,2015 at 09:00

File Structure..... VERIFIED

Calculated Account Totals..... VERIFIED

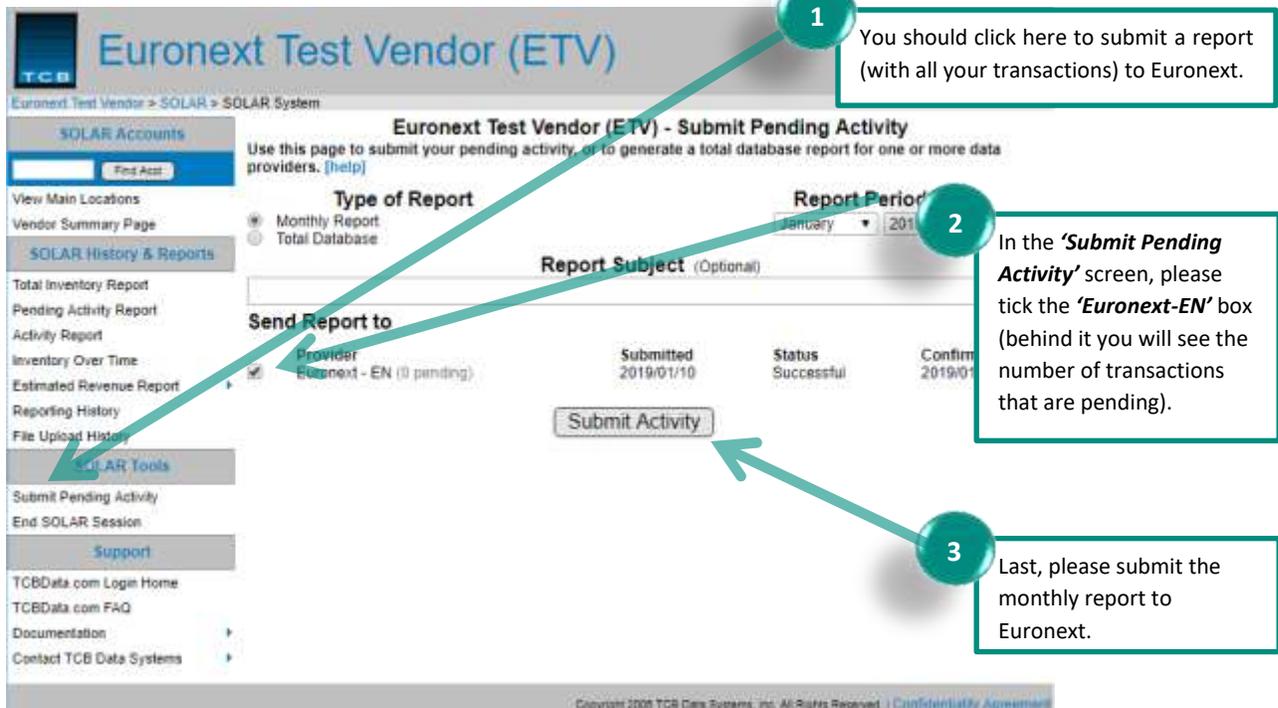
4 rows will be processed

Your file has been verified. Click the **Apply** button to commit the transactions, or **Cancel** to abort.

5

B3. SUBMITTING REPORTS

After you have applied your transactions, you should submit your transactions to Euronext via the **'Submit Pending Activity'** screen, via the **'Submit Activity'** button.



1 You should click here to submit a report (with all your transactions) to Euronext.

2 In the **'Submit Pending Activity'** screen, please tick the **'Euronext-EN'** box (behind it you will see the number of transactions that are pending).

3 Last, please submit the monthly report to Euronext.

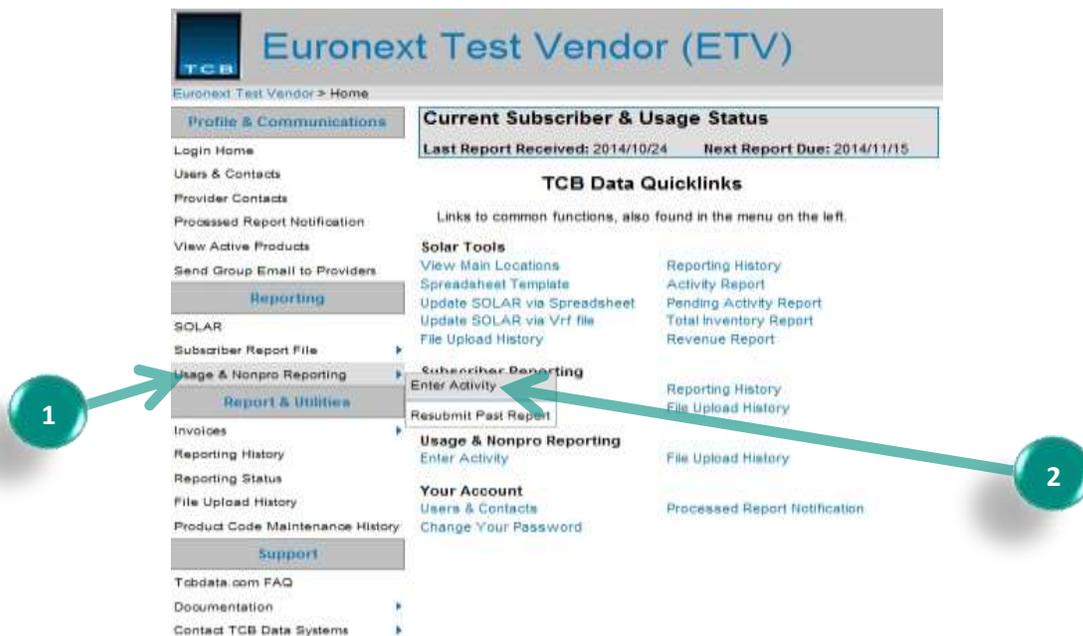
The screenshot shows the 'Euronext Test Vendor (ETV) - Submit Pending Activity' page. It includes a sidebar with navigation options like 'SOLAR Accounts', 'SOLAR History & Reports', and 'SOLAR Tools'. The main content area has a 'Type of Report' section with radio buttons for 'Monthly Report' and 'Total Database'. Below that is a 'Report Subject' field and a 'Send Report to' section with a checked box for 'Euronext - EN (0 pending)'. A 'Submit Activity' button is prominently displayed at the bottom.

For more information please email databyeuronext@euronext.com or contact your licensing manager.

In case of any questions about functionality of the TCB Data Systems website please email admin@tcldata.com.

C. REPORTING NON-PROFESSIONAL SUBSCRIBERS AND PAGE VIEWS

Non-professional subscribers and page views should be reported separately, through the 'Usage & Nonpro Reporting' link.



You will have to select whether you would like to report to Euronext non-professional subscribers and/or page views.

Usage & non-professional reporting Euronext Test Vendor

Tick **'Usage'** if you would like to report to Euronext page views.

Tick **'Non professional'** if you would like to report to Euronext non-professional subscribers.

Usage Non professional

[All exchanges](#) [All Usage](#) [All Non professional](#) [All Other](#)

EURONEXT

You should report to Euronext the aggregate number of page views and the aggregate number of non-professional subscriber devices. Note, this part of the reporting tool requires you to report the total number of page views or non-professional subscriber devices for each calendar month (i.e. here you do not report based on changes like in SOLAR). In case you provide white label services you are required to report differently, please contact databyeuronext@euronext.com for more information.

EURONEXT

Metered Usage Products			New Total
Product Code	Description		
EPVR-MU	Euronext Page View Requests		

Non-professional Products			New Total
Product Code	Description		
ENPI-SA	Euronext Private Investor		

After you clicked on **'Submit Totals'**, you should submit your report via **'Process Now'**.

For more information please email databyeuronext@euronext.com or contact your licensing manager.

In case of any questions about functionality of the TCB Data Systems website please email admin@tcldata.com.

APPENDIX 1: OVERVIEW OF THE REPORTING CATEGORIES

The table below provides an overview of your reporting obligation per reporting category. More detailed information is outlined in the EMDA Reporting Policy.

REPORTING CATEGORY	SUBCATEGORY (IF APPLICABLE)	LOCATION ACCOUNT NUMBERS	UNIT OF COUNT	PRODUCT CODES
Reporting your Internal Use of Information	Internal Use	Location account number free of choice (i.e. at your discretion)	User per Source / Device (where unable to allocate to a single natural person)	For product codes please click here .
	Operational Use			
Reporting your Subscriber's Use of Information	Subscriber Internal Use (Information Supplier-Controlled)	A separate Location Account Number for each Subscriber and free of choice (i.e. at your discretion)	Device	For product codes please click here .
	Subscriber Internal Use (Recipient-Controlled)		User per Source / Device (where unable to allocate to a single natural person)	
Reporting Subscribers Approved to report Natural User	Information Supplier-Controlled Information	A separate Location Account Number for each Subscriber (i.e. at your discretion)	Device for (Information-Supplier Controlled)	For product codes please click here .
	Recipient-Controlled Information		Datafeed/Installation (Recipient-Controlled)	
Reporting the Provision of Managed Non-Display Services	Provision of Access (Non-billable)	A separate Location Account Number for each Subscriber (i.e. at your discretion)	Subscriber	For product codes please click here .
Reporting the Provision of ASP Services/ESP Services to Trading Members	Provision of Access (Non-billable)	A separate Location Account Number for each Subscriber (i.e. at your discretion)	Subscriber (a Trading Member of Euronext)	For product codes please click here .

REPORTING CATEGORY	SUBCATEGORY (IF APPLICABLE)	LOCATION ACCOUNT NUMBERS	UNIT OF COUNT	PRODUCT CODES
Reporting your Non-Professional Subscriber's Use of Information	Non-Professional Subscriber	A separate Location Account Number specified by Euronext	Device	For product codes please click here .
	Page View Requests		Page View	
	White Label Services	A separate Location Account Number for each White Label Service Client and specified by Euronext	Device (professional and non-professional subscribers) or Page View	
Reporting the Provision of White Label Services	White Label Services	A separate Location Account Number for each White Label Service Client and free of choice (i.e. at your discretion)	White Label Service	For product codes please click here .
Reporting the Redistribution of Information to Sub Vendors	Real-Time Data Sub Vendors	A separate Location Account Number for each Sub Vendor and free of choice (i.e. at your discretion)	Sub Vendor	For product codes please click here .
	Delayed Data Sub Vendors			

APPENDIX 2: UNIT OF COUNTS

This appendix provides more detailed information about the different unit of counts.

A2.1 DEVICE

A device unit of count is applicable:

- When you (the information supplier) provide information supplier-controlled real-time market data to subscribers, either professional subscribers or non-professional subscribers, for the purpose of display. This means that the delivery mechanism does not allow the subscriber to control the type and number of users and/or devices that can access the market data and is thereby incapable of further dissemination of such data by such subscriber.
- When you (the information supplier) provide information supplier-controlled real-time market data to non-professional subscribers (i.e. private investors).
- For all your internal display use or your subscriber's display use of recipient-controlled real-time market data on a device, which cannot be allocated to a single natural person.

A device means any terminal, Access ID or other method capable of accessing, receiving, processing, displaying and/or otherwise Using the Information including, but without limitation, any listening device or any other form of audio communication or similar equipment.

IMPORTANT: Simultaneous access on a device is not allowed. For example, in case of simultaneous access on a single device (incl. user id), each instance with access to real-time market data on that device (incl. user id) is to be counted and reported.

In accordance with the unit of count, Device, you (or your subscriber, in case of recipient-controlled entitlement) should count how many devices have the ability to access market data for each separate data feed product from you (the information supplier). You should report this number to Euronext.

A2.2 USER PER SOURCE

A user per source unit of count is applicable:

- When you (the information supplier) provide recipient-controlled real-time market data to subscribers, professionals, for the purpose of display. This means that the delivery mechanism allows the subscriber to control the type and number of users and/or devices that can access the market data and is thereby capable of further dissemination of such data by such subscriber.
- In case of your internal distribution for the purpose of display use.

In accordance with the unit of count, User per Source, you (or your subscriber, in case of recipient-controlled entitlement) should count how many natural users have the ability to access market data for each separate data feed product from you (the information supplier). You should report this number to Euronext.

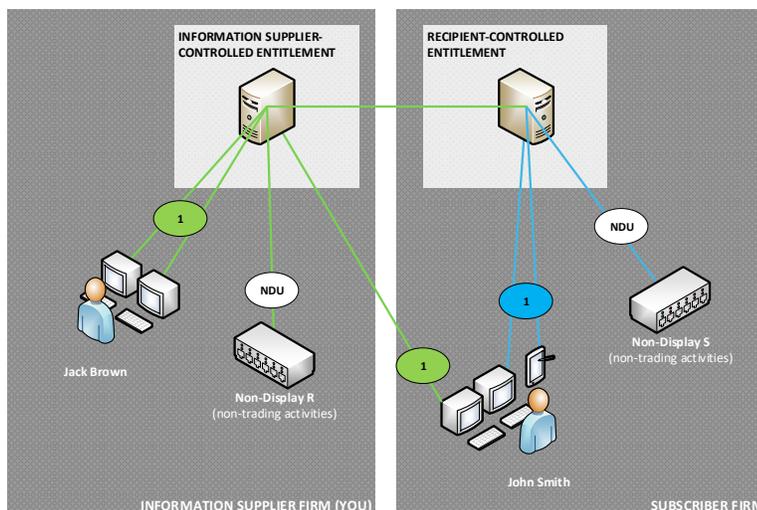
A2.3 EXAMPLE 'USER PER SOURCE' - WHEN YOU ARE AN INFORMATION SUPPLIER

The illustration below describes a situation in which you (the information supplier):

- are internally distributing and using real-time market data; and
- are redistributing real-time market data to a subscriber

In the example below you should report 1 user per source (for your internal access and use) and 1 device and 1 user per source (for your subscriber's access and use).

1. Jack Brown one of your employees has the ability to access your real-time market data products on two display devices. For such internal distribution and use of real-time market data the **'User per Source'** unit of count applies. Therefore you should count and report to Euronext 1 user (Jack Brown). Note, even though Jack Brown has access to market data twice, he only has to be counted once, as both are fed from one source.



2. One of your applications has the ability to access real-time market data for the creation of derived data. For non-display use of real-time data you have to be licensed separately via the Order Form.
3. John Smith one of your subscriber's employees has the ability to access your real-time information supplier-controlled market data product on one display device. For the display of information supplier-controlled market data the **'Device'** unit of count applies. Therefore you should count and report to Euronext 1 device (that of John Smith).
4. John Smith also has the ability to access your real-time market data products on two display devices, but in this case through recipient-controlled entitlement. For the display of recipient-controlled market data the **'User per Source'** unit of count applies. In this case, the subscriber should count and report to you 1 user (John Smith). You then shall report this user to Euronext. Note, even though John Smith has access to market data twice, it only has to be counted once, as it comes from one source (your data feed product)
5. Lastly, one of your subscriber's applications has the ability to access your real-time recipient-controlled market data product for non-display risk management. For non-display use the subscriber has to sign the EDSA agreement, if the subscriber is not already part of the EMDA agreement yet. It is your responsibility to ensure that all of your subscribers that are in receipt of recipient-controlled information from you have entered into an agreement with Euronext (whether they have non-display use or not).

A2.4 EXAMPLE 'USER PER SOURCE' - WHEN YOU ARE A TRADING MEMBER

The (simplified) illustration of market data access through market connectivity services is meant to provide more clarity on how to count and report the number of users with the ability to access Euronext market data.

In accordance with the unit of count, **User per Source**, you should count how many natural users have the ability to access market data for each market connectivity service (provider) and report the aggregate number per country.

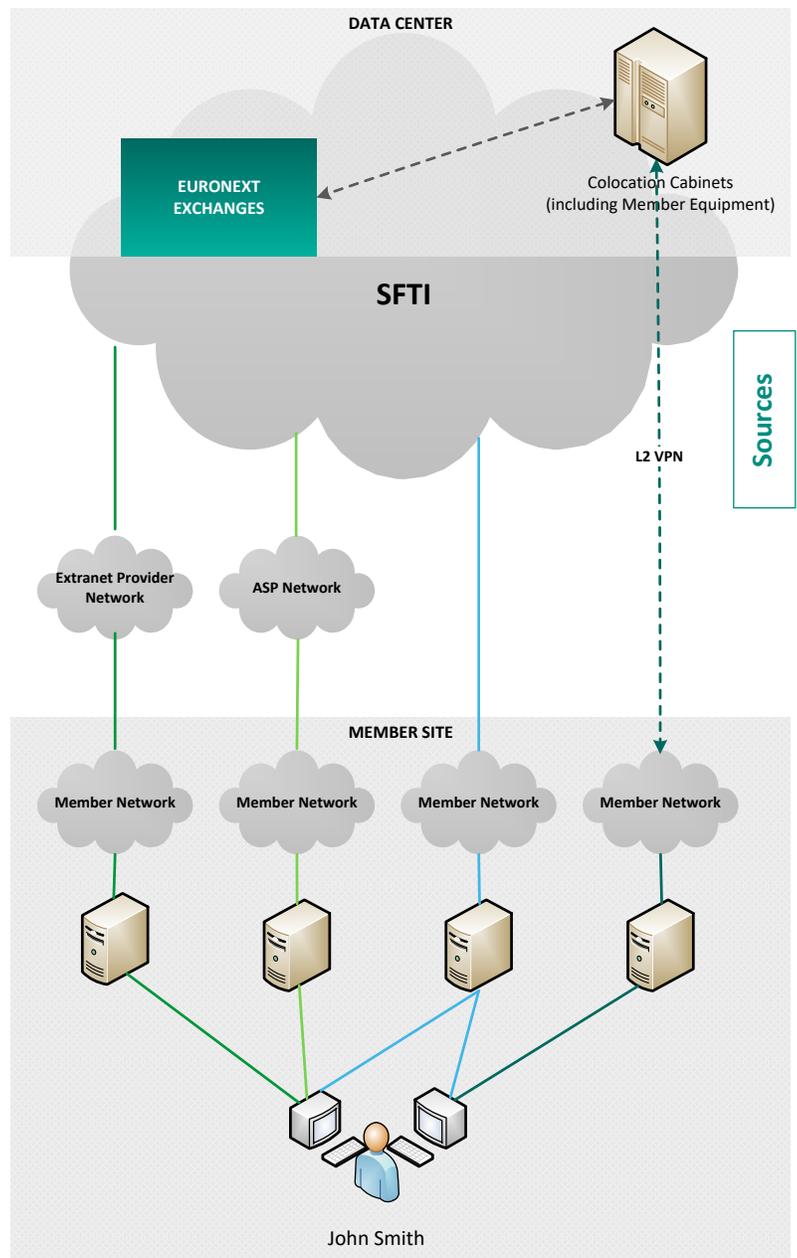
In the illustration John Smith is a user at a member firm and this user has two terminals:

- On one terminal John Smith has access to market data as part of three market connectivity services or “Sources” (Extranet Service Provider service, Application Service Provider service, SFTI Direct Connection).
- On one terminal John Smith has access to market data as part of two market connectivity services or “Sources” (SFTI Direct Connection, Colocation Cabinet).

In this case, the member firm should count and report John Smith four times (i.e. under four main locations). Once for the extranet service provider, once for application service provider, once for the SFTI Direct Connection and once for the SFTI Co-Location.

Note, even though John Smith has access to market data from the SFTI Direct Connection twice, it only has to be counted once, as it comes from one source.

For more information about how to apply the User per Source unit of count please contact databyeuronext@euronext.com.



APPENDIX 3: EURONEXT MARKET DATA PRODUCTS & PRODUCT CODES (INFORMATION SUPPLIER)

The tables below provides more information about Euronext Market Data Products applicable under the Euronext Market Data Agreement. The product codes described are the product codes either recommended or required by Euronext.

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT ALL INDICES	means Euronext Indices Information relating to all indices compiled, calculated and published by Euronext, including the index levels, open, high, low and closing level, of the indices.	EAI-IU	EAI-OPS	EAI-SA	EAI-DF	EAI-SDB	EAI-DDB
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) This Information Product is mapped to Cash Level 2, Cash Level 1 and Cash Last Price product codes. <i>(available in Level 2, Level 1 and Last Price)</i>	means Euronext Continental Equities, Euronext Best of Book Quotes, Euronext Block, Euronext ETFs and Funds, Euronext Warrants and Certificates and Euronext Fixed Income Information and Euronext Synapse. Level 2: <ul style="list-style-type: none"> ■ The full depth of the order book of the applicable financial instrument(s) traded on the applicable market(s). Level 2 also includes Level 1 and Last Price: ■ The best bid and offer per financial instrument, i.e. prices and quantities, of the applicable financial instrument(s) traded on the applicable market(s) and the number of orders at each price level. It also includes the indicative matching price and volume. ■ The traded prices and quantities, open, high, low and closing prices of the applicable financial instrument(s) 	ECB10-IU	ECB10-OPS	ECB10-SA	ECB10-DF	ECB10-SDB	ECB10-DDB

<p>traded on book and/or off book on the applicable market(s).</p> <ul style="list-style-type: none"> ■ The opening and closing messages relative to the characteristics of the financial instruments for the trading session. <p>Level 1:</p> <ul style="list-style-type: none"> ■ The best bid and offer per financial instrument, i.e. prices and quantities, of the applicable financial instrument(s) traded on the applicable market(s) and the number of orders at each price level. It also includes the indicative matching price and volume. Level 1 also includes Last Price: ■ The traded prices and quantities, open, high, low and closing prices of the applicable financial instrument(s) traded on book and/or off book on the applicable market(s). ■ The opening and closing messages relative to the characteristics of the financial instruments for the trading session. <p>Last Price:</p> <ul style="list-style-type: none"> ■ The traded prices and quantities, open, high, low and closing prices of the applicable financial instrument(s) traded on book and/or off book on the applicable market(s). ■ The opening and closing messages relative to the characteristics of the financial instruments for the trading session. 	ECB1-IU	ECB1-OPS	ECB1-SA	ECB1-DF	ECB1-SDB	ECB1-DDB
	ECLP-IU	ECLP-OPS	ECLP-SA	ECLP-DF	ECLP-SDB	ECLP-DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT ALL INDICES	means Euronext Indices Information relating to all indices compiled, calculated and published by Euronext, including the index levels, open, high, low and closing level, of the indices.	VCEAI-MND	TMEAI-TM	EAI-WL	EAI-DWL	SVEAI-SV	SVDEAI-SV
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) This Information Product is mapped to Cash Level 2, Cash Level 1 and Cash Last Price product codes. <i>(available in Level 2, Level 1 and Last Price)</i>	means Euronext Continental Equities, Euronext Best of Book Quotes, Euronext Block, Euronext ETFs and Funds, Euronext Warrants and Certificates and Euronext Fixed Income Information and Euronext Synapse. Level 2: <ul style="list-style-type: none"> ■ The full depth of the order book of the applicable financial instrument(s) traded on the applicable market(s). Level 2 also includes Level 1 and Last Price: ■ The best bid and offer per financial instrument, i.e. prices and quantities, of the applicable financial instrument(s) traded on the applicable market(s) and the number of orders at each price level. It also includes the indicative matching price and volume. ■ The traded prices and quantities, open, high, low and closing prices of the applicable financial instrument(s) traded on book and/or off book on the applicable market(s). ■ The opening and closing messages relative to the characteristics of the financial instruments for the trading session. 	VCECB10-MND	TMECB10-TM	ECB10-WL	ECB10-DWL	SVECB10-SV	SVDECB10-S

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to Euronext's regulated equities markets in Amsterdam, Brussel, Lisbon and Paris, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of Euronext equities. It also includes the indicative matching price and volume for the equity markets. Opening and closing messages relative to the characteristics of the equities for the trading session are also included.	EQL2-IU	EQL2-OPS	EQL2-SA	EQL2-DF	EQL2-SDB	EQL2-DDB
		EQTLP-IU	EQTLP-OPS	EQTLP-SA	EQTLP-DF	EQTLP-SDB	EQTLP-DDB
EURONEXT BEST OF BOOK <i>(available in Level 2)</i>	means Euronext Cash Information relating to the Best of Book segment of the regulated Euronext cash markets, including up to all bids and offers per security, i.e. prices and quantities.	RMFQ-IU	RMFQ-OPS	RMFQ-SA	RMFQ-DF	RMFQ-SDB	RMFQ-DDB
EURONEXT BLOCK <i>(available in Last Price)</i>	means Euronext Cash Information, relating to securities traded on the Euronext Block MTF platform, including all traded prices and quantities.	EBT-IU	EBT-OPS	EBT-SA	EBT-DF	EBT-SDB	EBT-DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to Euronext's regulated equities markets in Amsterdam, Brussel, Lisbon and Paris, including all bids and offers, i.e. prices and quantities, open, high, low and closing prices of Euronext equities. It also includes the indicative matching price and volume for the equity markets. Opening and closing messages relative to the characteristics of the equities for the trading session are also included	VCEQTL2-MND VCEQTLP-MND	TMEQTL2-TM TMEQTLP-TM	EQTL2-WL EQTLP-WL	EQTL2-DWL EQTLP-DWL	SVEQTL2-SV SVEQTLP-SV	SVDEQTL2-S SVDEQTLP-S
EURONEXT BEST OF BOOK <i>(available in Level 2)</i>	means Euronext Cash Information relating to the Best of Book segment of the regulated Euronext cash markets, including up to all bids and offers per security, i.e. prices and quantities.	VCRMFAQ-MND	TMRMFAQ-TM	RMFAQ-WL	RMFAQ-DWL	SVRMFAQ-SV	SVDRMFAQ-S
EURONEXT BLOCK <i>(available in Last Price)</i>	means Euronext Cash Information, relating to securities traded on the Euronext Block MTF platform, including all traded prices and quantities.	VCEBT-MND	TMEBT-TM	EBT-WL	EBT-DWL	SVEBT-SV	SVDEBT-SV

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT ETFs AND FUNDS <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all Euronext Exchange Traded Funds (ETFs) and Funds markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of the ETFs and Funds. It also includes the indicative matching price and volume for the ETF and Funds markets. Opening and closing messages relative to the characteristics of the ETFs and Funds for the trading session are also included.	ETFL2-IU	ETFL2-OPS	ETFL2-SA	ETFL2-DF	ETFL2-SDB	ETFL2-DDB
		ETFLP-IU	ETFLP-OPS	ETFLP-SA	ETFLP-DF	ETFLP-SDB	ETFLP-DDB
EURONEXT WARRANTS AND CERTIFICATES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all Euronext Warrants and Certificates markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of the Warrants and Certificates. It also includes the indicative matching price and volume for the Warrants and Certificates markets. Opening and closing messages relative to the characteristics of the Warrants and Certificates for the trading session are also included.	EWCL2-IU	EWCL2-OPS	EWCL2-SA	EWCL2-DF	EWCL2-SDB	EWCL2-DDB
		EWCLP-IU	EWCLP-OPS	EWCLP-SA	EWCLP-DF	EWCLP-SDB	EWCLP-DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT ETFs AND FUNDS <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all Euronext Exchange Traded Funds (ETFs) and Funds markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of the ETFs and Funds. It also includes the indicative matching price and volume for the ETF and Funds markets. Opening and closing messages relative to the characteristics of the ETFs and Funds for the trading session are also included.	VCETFL2-MND	TMETFL2-TM	ETFL2-WL	ETFL2-DWL	SVETFL2-SV	SVDETFL2-S
		VCETFLP-MND	TMETFLP-TM	ETFLP-WL	ETFLP-DWL	SVETFLP-SV	SVDETFLP-S
EURONEXT WARRANTS AND CERTIFICATES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all Euronext Warrants and Certificates markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of the Warrants and Certificates. It also includes the indicative matching price and volume for the Warrants and Certificates markets. Opening and closing messages relative to the characteristics of the Warrants and Certificates for the trading session are also included.	VCEWCL2-MND	TMEWCL2-TM	EWCL2-WL	EWCL2-DWL	SVEWCL2-SV	SVDEWCL2-S
		VCEWCLP-MND	TMEWCLP-TM	EWCLP-WL	EWCLP-DWL	SVEWCLP-SV	SVDEWCLP-S

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT FIXED INCOME <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all regulated Euronext Fixed Income markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices and spread and yield of the bonds. It also includes the indicative matching price and volume for the Fixed Income markets. Opening and closing messages relative to the characteristics of the bonds for the trading session are also included.	EFIL2-IU EFILP-IU	EFIL2-OPS EFILP-OPS	EFIL2-SA EFILP-SA	EFIL2-DF EFILP-DF	EFIL2-SDB EFILP-SDB	EFIL2-DDB EFILP-DDB
EURONEXT SYNAPSE <i>(available in Last Price)</i>	means Euronext Cash Information relating to securities traded on the Euronext Synapse MTF platform, including all prices and quantities.	ESYN-IU	ESYN-OPS	ESYN-SA	ESYN-DF	ESYN-SDB	ESYN-DDB
EURONEXT DUBLIN EQUITIES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to Euronext's regulated equities market in Dublin, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of these Euronext equities. It also includes the indicative matching price and volume for the equity market. Opening and closing messages relative to the characteristics of the equities for the trading session are also included.	DEQL2-IU DEQLP-IU	DEQL2-OPS DEQLP-OPS	DEQL2-SA DEQLP-SA	DEQL2-DF DEQLP-DF	DEQL2-SDB DEQLP-SDB	DEQL2-DDB DEQLP-DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT FIXED INCOME <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to all regulated Euronext Fixed Income markets, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices and spread and yield of the bonds. It also includes the indicative matching price and volume for the Fixed Income markets. Opening and closing messages relative to the characteristics of the bonds for the trading session are also included.	VCEFIL2-MND	TMEFIL2-TM	EFIL2-WL	EFIL2-DWL	SVEFIL2-SV	SVDEFIL2-S
		VCEFILP-MND	TMEFILP-TM	EFILP-WL	EFILP-DWL	SVEFILP-SV	SVDEFILP-S
EURONEXT SYNAPSE <i>(available in Last Price)</i>	means Euronext Cash Information relating to securities traded on the Euronext Synapse MTF platform, including all prices and quantities.	VCESYN-MND	TMESYN-TM	ESYN-WL	ESYN-DWL	SVESYN-SV	SVDESYN-SVD
EURONEXT DUBLIN EQUITIES <i>(available in Level 2 and Last Price)</i>	means Euronext Cash Information relating to Euronext's regulated equities market in Dublin, including all bids and offers, i.e. prices and quantities, traded prices and quantities, open, high, low and closing prices of these Euronext equities. It also includes the indicative matching price and volume for the equity market. Opening and closing messages relative to the characteristics of the equities for the trading session are also included.	VCDEQL2-MND	TMDEQL2-TM	DEQL2-WL	DEQL2-DWL	SVDEQL2-SV	SVDDEQL2-SV
		VCDEQLP-MND	TMDEQLP-TM	DEQLP-WL	DEQLP-DWL	SVDEQLP-SV	SVDDEQLP-SV

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Equity and Index Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's equity and index derivatives.	EQID-IU	EQID -OPS	EQID -SA	EQID -DF	EQID -SDB	EQID -DDB
		EQIDLPIU	EQIDLPIOPS	EQIDLPI-SA	EQIDLPI-DF	EQIDLPI-SDB	EQIDLPI-DDB
EURONEXT COMMODITY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Commodity Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's commodity derivatives.	COMD-IU	COMD -OPS	COMD -SA	COMD -DF	COMD -SDB	COMD -DDB
		COMLPIU	COMLPIOPS	COMLPI-SA	COMLPI-DF	COMLPI-SDB	COMLPI-DDB
EURONEXT CURRENCY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Currency Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's currency derivatives.	CURD-IU	CURD -OPS	CURD -SA	CURD -DF	CURD -SDB	CURD -DDB
		CURLPIU	CURLPIOPS	CURLPI-SA	CURLPI-DF	CURLPI-SDB	CURLPI-DDB
EURONEXT ATOMX FLEXIBLE DERIVATIVES Decommissioned per May 1st, 2019. <i>(available in Last Price)</i>	means Derivatives Information relating to Flexible Derivatives traded on Euronext's AtomX market, including all traded prices and quantities on Euronext's flexible derivatives.	EFD -IU	EFD -OPS	EFD -SA	EFD -DF	EFD -SDB	EFD -DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Equity and Index Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's equity and index derivatives.	VCEQID-MND VCEQIDLDP-MND	TMEQID-TM TMEQIDLDP-TM	EQID-WL EQIDLDP-WL	EQID -DWL EQIDLDP-DWL	SVEQID-SV SVEQIDLDP-S	SVDEQID-SV SVDEQIDLDP-S
EURONEXT COMMODITY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Commodity Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's commodity derivatives.	VCCOMD-MND VCCOMLDP-MND	TMCOMD-TM TMCOMLDP-TM	COMD-WL COMLDP-WL	COMD-DWL COMLDP-DWL	SVCOMD-SV SVCOMLDP-SV	SVDCOMD-SV SVDCOMLDP-S
EURONEXT CURRENCY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	means Euronext Derivatives Information relating to Currency Derivatives traded on the Euronext Derivatives markets, including all bids and offers (aggregated limits), traded prices, open interest and quantities on Euronext's currency derivatives.	VCCURD-MND VCCURLDP-MND	TMCURD-TM TMCURLDP-TM	CURD-WL CURLDP-WL	CURD -DWL CURLDP-DWL	SVCURD-SV SVCURLDP-SV	SVDCURD-SV SVDCURLDP-S
EURONEXT ATOMX FLEXIBLE DERIVATIVES Decommissioned per May 1st, 2019. <i>(available in Last Price)</i>	means Derivatives Information relating to Flexible Derivatives traded on Euronext's AtomX market, including all traded prices and quantities on Euronext's flexible derivatives.	VCEFD-MND	TMEFD-TM	EFD-WL	EFD -DWL	SVEFD-SV	SVDEFD-SV

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING YOUR INTERNAL USE OF INFORMATION		REPORTING YOUR SUBSCRIBER'S USE OF INFORMATION		REPORTING SUBSCRIBERS APPROVED TO REPORT NATURAL USER	
		INTERNAL USE	OPERATIONAL USE	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA	INFORMATION SUPPLIER - CONTROLLED DATA	RECIPIENT - CONTROLLED DATA
EURONEXT APA TRADES <i>(available in Last Price)</i>	means Information including the trade reports submitted by investment firms and systematic internalisers to Euronext via the Euronext APA service, Trade Publication Service or other trading platforms directly.	EETR -IU	EETR -OPS	EETR -SA	EETR -DF	EETR -SDB	EETR -DDB
EURONEXT APA (SI) QUOTES <i>(available in Level 2)</i>	means Information including all bids and offers, i.e. prices and quantities, submitted by systematic internalisers to Euronext via the Euronext APA service.	EAPAQ-IU	EAPAQ-OPS	EAPAQ-SA	EAPAQ-DF	EAPAQ-SDB	EAPAQ-DDB

EURONEXT MARKET DATA INFORMATION PRODUCT	EURONEXT MARKET DATA INFORMATION PRODUCT DESCRIPTION	REPORTING THE PROVISION OF MANAGED NON-DISPLAY SERVICES	REPORTING THE PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REPORTING THE PROVISION OF WHITE LABEL SERVICES		REPORTING THE REDISTRIBUTION OF INFORMATION TO SUB VENDORS	
		PROVISION OF MANAGED NON-DISPLAY SERVICES	PROVISION OF ASP SERVICES/ESP SERVICES TO TRADING MEMBERS	REAL TIME WHITE LABEL	DELAYED WHITE LABEL	REAL-TIME DATA SUB VENDOR	DELAYED DATA SUB VENDOR
EURONEXT APA TRADES <i>(available in Last Price)</i>	means Information including the trade reports submitted by investment firms and systematic internalisers to Euronext via the Euronext APA service, Trade Publication Service or other trading platforms directly.	VCEETR-MND	TMEETR-TM	EETR-WL	EETR -DWL	SVEETR-SV	SVDEETR-SV
EURONEXT APA (SI) QUOTES <i>(available in Level 2)</i>	means Information including all bids and offers, i.e. prices and quantities, submitted by systematic internalisers to Euronext via the Euronext APA service.	VCEAPAQ-MND	TMEAPAQ-TM	TMEAPAQ-WL	EAPAQ-DF	EAPAQ-SDB	EPAQ-DOB

EURONEXT MARKET DATA PRODUCT	EURONEXT MARKET DATA PRODUCT DESCRIPTION	REPORTING YOUR NON-PROFESSIONAL SUBSCRIBER'S USE OF INFORMATION
NON-PROFESSIONAL SUBSCRIBER PREMIUM	<p>This may include, Euronext All Indices, Euronext Cash Level 1 & 2 (and Best of Book Quotes if you are authorized), Euronext Equity and Index Derivatives*, Euronext Currency Derivatives* market data.</p> <p>*Where this market data is limited to the best bid and offer and trading prices only.</p>	ENPI-SA
NON-PROFESSIONAL SUBSCRIBER BASIC	<p>This may include, Euronext All Indices, Euronext Cash Level 1 (and Best of Book Quotes if you are authorized), Euronext Equity and Index Derivatives*, Euronext Currency Derivatives* market data.</p> <p>*Where this market data is limited to the best bid and offer and trading prices only.</p>	ENPIB-SA
NON-PROFESSIONAL SUBSCRIBER WARRANTS AND CERTIFICATES	This only include Euronext Warrants and Certificates (Level 2).	ENPIWC-SA
PAGE VIEWS	A page view may include quotes from Euronext cash market data, Euronext Best of Book Quotes, Euronext Equity and Index Derivatives, Euronext Currency Derivatives and the following indices: Euronext 100, Next 150, CAC 40, AEX, Bel 20 and PSI 20.	EPVR-MU

APPENDIX 4: EURONEXT MARKET DATA PRODUCTS & PRODUCT CODES (TRADING MEMBER)

The tables below provides more information about Euronext Market Data Products applicable under the Euronext Market Data Agreement (EMDA). The product codes described are the product codes either recommended or required by Euronext.

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT ALL INDICES	EAI-IU	REFI	Compressed	Optiq - Euronext Indices - REFI (indices and referential data)	100 MB	224.0.64.250	224.0.65.250	224.0.66.250	224.0.67.250	10250, 20250	
	EAI-OPS	REFI	Compressed	Optiq - Euronext iNAVs - REFI (indices and referential data)	100 MB	224.0.64.251	224.0.65.251	224.0.66.251	224.0.67.251	10251, 20251	
		REFI	Compressed	Optiq - Euronext Dublin Indices - REFI (indices and referential data)	100 MB	224.0.64.252	224.0.65.252	224.0.66.252	224.0.67.252	10252, 20252	
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK)	ECB10-IU*	FBMU	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.101	224.0.65.101	224.0.66.101	224.0.67.101	10101, 11101, 12101, 13101, 20101, 21101, 22101, 23101	
		FBMU	Shaped	Optiq - Equities - Belgium - includes Public Auction Market - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.102	224.0.65.102			10102, 11102, 12102, 13102	
	ECB10-OPS*	ECB1-IU*	FBOU	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.103	224.0.65.103	224.0.66.103	224.0.67.103	10103, 11103, 12103, 13103, 20103, 21103, 22103, 23103
		ECB1-OPS*	FBOU	Shaped	Optiq - Equities - Belgium - includes Public Auction Market - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.104	224.0.65.104			10104, 11104, 12104, 13104

**The Market Data Product Codes ECB10-IU, ECB10-OPS, ECB1-IU and ECB1-OPS are mapped to the same SFTI products. (available in Level 2, Level 1 and Last Price)*

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) <i>*The Market Data Product Codes ECB10-IU, ECB10-OPS, ECB1-IU and ECB1--OPS are mapped to the same SFTI products. (available in Level 2, Level 1 and Last Price)</i>	ECB10-IU* ECB10-OPS* ECB1-IU* ECB1-OPS*	FBMU	Compressed	Optiq - Equities - Portugal - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.106	224.0.65.106	224.0.66.106	224.0.67.106	10106, 11106, 12106, 13106, 20106, 21106, 22106, 23106
		FBMU	Shaped	Optiq - Equities - Portugal - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.107	224.0.65.107			10107, 11107, 12107, 13107
		FBOU	Compressed	Optiq - Equities - Portugal - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.108	224.0.65.108	224.0.66.108	224.0.67.108	10108, 11108, 12108, 13108, 20108, 21108, 22108, 23108
		FBOU	Shaped	Optiq - Equities - Portugal - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.109	224.0.65.109			10109, 11109, 12109, 13109
		FBMU	Compressed	Optiq - Equities - France - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.111	224.0.65.111	224.0.66.111	224.0.67.111	10111, 11111, 12111, 13111, 20111, 21111, 22111, 23111
		FBMU	Shaped	Optiq - Equities - France - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.112	224.0.65.112			10112, 11112, 12112, 13112
		FBOU	Compressed	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.113	224.0.65.113	224.0.66.113	224.0.67.113	10113, 11113, 12113, 13113, 20113, 21113, 22113, 23113
		FBOU	Shaped	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.114	224.0.65.114			10114, 11114, 12114, 13114
		FBOU	Unshaped	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.115	224.0.65.115			10115, 11115, 12115, 13115

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) <i>*The Market Data Product Codes ECB10-IU, ECB10-OPS, ECB1-IU and ECB1--OPS are mapped to the same SFTI products.</i> <i>(available in Level 2, Level 1 and Last Price)</i>	ECB10-IU*	FBMU	Compressed	Optiq - Equities - Netherlands - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.121	224.0.65.121	224.0.66.121	224.0.67.121	10121, 11121, 12121, 13121, 20121, 21121, 22121, 23121	
		FBMU	Shaped	Optiq - Equities - Netherlands - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.122	224.0.65.122			10122, 11122, 12122, 13122	
		FBOU	Compressed	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.123	224.0.65.123	224.0.66.123	224.0.67.123	10123, 11123, 12123, 13123, 20123, 21123, 22123, 23123	
		FBOU	Shaped	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.124	224.0.65.124			10124, 11124, 12124, 13124	
		FBOU	Unshaped	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.125	224.0.65.125			10125, 11125, 12125, 13125	
		ECB1-OPS*	FBMU	Compressed	Optiq - ETF - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.131	224.0.65.131	224.0.66.131	224.0.67.131	10131, 20131
			FBMU	Shaped	Optiq - ETF - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.132	224.0.65.132			10132
			FBOU	Compressed	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.133	224.0.65.133	224.0.66.133	224.0.67.133	10133, 20133
			FBOU	Shaped	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.134	224.0.65.134			10134

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT CONTINTAL CASH (CONSOLIDATED PACK) <i>*The Market Data Product Codes ECB10-IU, ECB10-OPS, ECB1-IU and ECB1--OPS are mapped to the same SFTI products. (available in Level 2, Level 1 and Last Price)</i>	ECB10-IU* ECB10-OPS* ECB1-IU* ECB1-OPS*	FBOU	Unshaped	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.135	224.0.65.135			10135
		FBMU	Compressed	Optiq - ETF Access - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.91	224.0.65.91	224.0.66.91	224.0.67.91	10091, 20091
		FBMU	Shaped	Optiq - ETF Access - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.92	224.0.65.92			10092
		FBOU	Compressed	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.93	224.0.65.93	224.0.66.93	224.0.67.93	10093, 20093
		FBOU	Shaped	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.94	224.0.65.94			10094
		FBOU	Unshaped	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.95	224.0.65.95			10095
		FBMU	Compressed	Optiq - Fixed Income - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.151	224.0.65.151	224.0.66.151	224.0.67.151	1015, 120151
		FBMU	Shaped	Optiq - Fixed Income - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.152	224.0.65.152			10152
		FBOU	Compressed	Optiq - Fixed Income - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.153	224.0.65.153	224.0.66.153	224.0.67.153	10153, 20153

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) <i>*The Market Data Product Codes ECB10-IU, ECB10-OPS, ECB1-IU and ECB1-OPS are mapped to the same SFTI products.</i> <i>(available in Level 2, Level 1 and Last Price)</i> <i>**The Market Data Product Codes ECLP-IU and ECLP-OPS are mapped to the same SFTI products.</i>	ECB10-IU*	FBOU	Shaped	Optiq - Fixed Income - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.154	224.0.65.154			10154	
		BBBO	Compressed	Optiq - Warrants & Certificates - All - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.156	224.0.65.156	224.0.66.156	224.0.67.156	10156, 20156	
		BBBO	Shaped	Optiq - Warrants & Certificates - All - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.157	224.0.65.157			10157	
		ECB10-OPS*	FBMU	Compressed	Optiq - Warrants & Certificates - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.158	224.0.65.158	224.0.66.158	224.0.67.158	10158, 20158
		ECB1-IU*	FBMU	Shaped	Optiq - Warrants & Certificates - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.159	224.0.65.159			10159
		ECB1-OPS*	FBMU	Compressed	Optiq - Euronext Best of Book - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.138	224.0.65.138	224.0.66.138	224.0.67.138	10138, 11138, 12138, 13138, 20138, 21138, 22138, 23138
			FBMU	Shaped	Optiq - Euronext Best of Book - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.139	224.0.65.139			10139, 11139, 12139, 13139
	ECLP-IU**	REFT	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.100	224.0.65.100	224.0.66.100	224.0.67.100	10100, 11100, 12100, 13100, 20100, 21100, 22100, 23100	
	ECLP-OPS**	REFT	Compressed	Optiq - Equities - Portugal - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.105	224.0.65.105	224.0.66.105	224.0.67.105	10105, 11105, 12105, 13105, 20105, 21105, 22105, 23105	

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT CONTINENTAL CASH (CONSOLIDATED PACK) <i>**The Market Data Product Codes ECLP-IU and ECLP-OPS are mapped to the same SFTI products.</i> <i>(available in Level 2, Level 1 and Last Price)</i>	ECLP-IU**	REFT	Compressed	Optiq - Equities - France - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.110	224.0.65.110	224.0.66.110	224.0.67.110	10110, 11110, 12110, 13110, 20110, 21110, 22110, 23110	
		REFT	Compressed	Optiq - Equities - Netherlands - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.120	224.0.65.120	224.0.66.120	224.0.67.120	10120, 11120, 12120, 13120, 20120, 21120, 22120, 23120	
		REFT	Compressed	Optiq - ETF - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.130	224.0.65.130	224.0.66.130	224.0.67.130	10130, 20130	
		ECLP-OPS**	REFT	Compressed	Optiq - ETF Access - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.90	224.0.65.90	224.0.66.90	224.0.67.90	10090, 20090
		REFT	Compressed	Optiq - Fixed Income - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.150	224.0.65.150	224.0.66.150	224.0.67.150	10150, 20150	
		REFT	Compressed	Optiq - Warrants & Certificates - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.155	224.0.65.155	224.0.66.155	224.0.67.155	10155, 20155	
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	EQTL2-IU	FBMU	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.101	224.0.65.101	224.0.66.101	224.0.67.101	10101, 11101, 12101, 13101, 20101, 21101, 22101, 23101	
	EQTL2-OPS	FBMU	Shaped	Optiq - Equities - Belgium - includes Public Auction Market - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.102	224.0.65.102			10102, 11102, 12102, 13102	

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	EQTL2-IU EQTL2-OPS	FBOU	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.103	224.0.65.103	224.0.66.103	224.0.67.103	10103, 11103, 12103, 13103, 20103, 21103, 22103, 23103
		FBOU	Shaped	Optiq - Equities - Belgium - includes Public Auction Market - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.104	224.0.65.104			10104, 11104, 12104, 13104
		FBMU	Compressed	Optiq - Equities - Portugal - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.106	224.0.65.106	224.0.66.106	224.0.67.106	10106, 11106, 12106, 13106, 20106, 21106, 22106, 23106
		FBMU	Shaped	Optiq - Equities - Portugal - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.107	224.0.65.107			10107, 11107, 12107, 13107
		FBOU	Compressed	Optiq - Equities - Portugal - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.108	224.0.65.108	224.0.66.108	224.0.67.108	10108, 11108, 12108, 13108, 20108, 21108, 22108, 23108
		FBOU	Shaped	Optiq - Equities -Portugal - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.109	224.0.65.109			10109, 11109, 12109, 13109
		FBMU	Compressed	Optiq - Equities - France - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.111	224.0.65.111	224.0.66.111	224.0.67.111	10111, 11111, 12111, 13111, 20111, 21111, 22111, 23111
		FBMU	Shaped	Optiq - Equities - France - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.112	224.0.65.112			10112, 11112, 12112, 13112

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	EQTL2-IU EQTL2-OPS	FBOU	Compressed	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.113	224.0.65.113	224.0.66.113	224.0.67.113	10113, 11113, 12113, 13113, 20113, 21113, 22113, 23113
		FBOU	Shaped	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.114	224.0.65.114			10114, 11114, 12114, 13114
		FBOU	Unshaped	Optiq - Equities - France - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.115	224.0.65.115			10115, 11115, 12115, 13115
		FBMU	Compressed	Optiq - Equities - Netherlands - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.121	224.0.65.121	224.0.66.121	224.0.67.121	10121, 11121, 12121, 13121, 20121, 21121, 22121, 23121
		FBMU	Shaped	Optiq - Equities - Netherlands - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.122	224.0.65.122			10122, 11122, 12122, 13122
		FBOU	Compressed	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.123	224.0.65.123	224.0.66.123	224.0.67.123	10123, 11123, 12123, 13123, 20123, 21123, 22123, 23123
		FBOU	Shaped	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.124	224.0.65.124			10124, 11124, 12124, 13124
		FBOU	Unshaped	Optiq - Equities - Netherlands - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.125	224.0.65.125			10125, 11125, 12125, 13125

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT CONTINENTAL EQUITIES <i>(available in Level 2 and Last Price)</i>	EQTLP-IU	REFT	Compressed	Optiq - Equities - Belgium - includes Public Auction Market - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.100	224.0.65.100	224.0.66.100	224.0.67.100	10100, 11100, 12100, 13100, 20100, 21100, 22100, 23100	
		REFT	Compressed	Optiq - Equities - Portugal - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.105	224.0.65.105	224.0.66.105	224.0.67.105	10105, 11105, 12105, 13105, 20105, 21105, 22105, 23105	
	EQTLP-OPS	REFT	Compressed	Optiq - Equities - France - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.110	224.0.65.110	224.0.66.110	224.0.67.110	10110, 11110, 12110, 13110, 20110, 21110, 22110, 23110	
		REFT	Compressed	Optiq - Equities - Netherlands - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.120	224.0.65.120	224.0.66.120	224.0.67.120	10120, 11120, 12120, 13120, 20120, 21120, 22120, 23120	
EURONEXT DUBLIN EQUITIES <i>(available in Level 2 and Last Price)</i>	DEQL2-IU	FBMU	Compressed	Optiq - Equities - Dublin - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.166	224.0.65.166	224.0.66.166	224.0.67.166	10166, 11166, 12166, 13166, 20166, 21166, 22166, 23166	
		FBMU	Shaped	Optiq - Equities - Dublin - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.167	224.0.65.167			10167, 11167, 12167, 13167	
		DEQL2-OPS	FBOU	Compressed	Optiq - Equities - Dublin - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.168	224.0.65.168	224.0.66.168	224.0.67.168	10168, 11168, 12168, 13168, 20168, 21168, 22168, 23168
			FBOU	Shaped	Optiq - Equities - Dublin - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.169	224.0.65.169			10169, 11169, 12169, 13169
	DEQLP-IU DEQLP-OPS	REFT	Compressed	Optiq - Equities - Dublin - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.165	224.0.65.165	224.0.66.165	224.0.67.165	10165, 11165, 12165, 13165, 20165, 21165, 22165, 23165	

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT BEST OF BOOK <i>(available in Level 2)</i>	RMFQ-IU	FBMU	Compressed	Optiq - Euronext Best of Book - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.138	224.0.65.138	224.0.66.138	224.0.67.138	10138, 20138, 12138, 13138, 20138, 21138, 22138, 23138
	RMFQ-OPS	FBMU	Shaped	Optiq - Euronext Best of Book - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.139	224.0.65.139			10139, 11139, 12139, 13139
EURONEXT BLOCK <i>(available in Last Price)</i>	EBT-IU	EBLK	Compressed	Euronext Block - Compressed Channels	100 MB	224.0.64.99	224.0.65.99	224.0.66.99	224.0.67.99	10099, 20099
	EBT-OPS									
EURONEXT ETFs AND FUNDS <i>(available in Level 2 and Last Price)</i>	ETFL2-IU ETFL2-OPS	FBMU	Compressed	Optiq - ETF - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.131	224.0.65.131	224.0.66.131	224.0.67.131	10131, 20131
		FBMU	Shaped	Optiq - ETF - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.132	224.0.65.132			10132
		FBOU	Compressed	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.133	224.0.65.133	224.0.66.133	224.0.67.133	10133, 20133
		FBOU	Shaped	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.134	224.0.65.134			10134
		FBOU	Unshaped	Optiq - ETF - All - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.135	224.0.65.135			10135

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT ETFs AND FUNDS <i>(available in Level 2 and Last Price)</i>	ETFL2-IU	FBMU	Compressed	Optiq - ETF Access - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.91	224.0.65.91	224.0.66.91	224.0.67.91	10091, 20091	
		FBMU	Shaped	Optiq - ETF Access - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.92	224.0.65.92			10092	
		ETFL2-OPS	FBOU	Compressed	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.93	224.0.65.93	224.0.66.93	224.0.67.93	10093, 20093
			FBOU	Shaped	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.94	224.0.65.94			10094
			FBOU	Unshaped	Optiq - ETF Access - All - FBOU (Full Order Book data using Order Update messages) - Unshaped Channels	10 GB	224.0.64.95	224.0.65.95			10095
	ETFLP-IU	REFT	Compressed	Optiq - ETF - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.130	224.0.65.130	224.0.66.130	224.0.67.130	10130, 20130	
	ETFLP-OPS	REFT	Compressed	Optiq - ETF Access - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.90	224.0.65.90	224.0.66.90	224.0.67.90	10090, 20090	
EURONEXT WARRANTS AND CERTIFICATES <i>(available in Level 2 and Last Price)</i>	EWCL2-IU	BBBO	Compressed	Optiq - Warrants & Certificates - All - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.156	224.0.65.156	224.0.66.156	224.0.67.156	10156, 20156	
	EWCL2-OPS	BBBO	Shaped	Optiq - Warrants & Certificates - All - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.157	224.0.65.157			10157	

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT WARRANTS AND CERTIFICATES <i>(available in Level 2 and Last Price)</i>	EWCL2-IU	FBMU	Compressed	Optiq - Warrants & Certificates - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.158	224.0.65.158	224.0.66.158	224.0.67.158	10158, 20158
	EWCL2-OPS	FBMU	Shaped	Optiq - Warrants & Certificates - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.159	224.0.65.159			10159
	EWCLP-IU EWCLP-OPS	REFT	Compressed	Optiq - Warrants & Certificates - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.155	224.0.65.155	224.0.66.155	224.0.67.155	10155, 20155
EURONEXT FIXED INCOME <i>(available in Level 2 and Last Price)</i>	EFIL2-IU	FBMU	Compressed	Optiq - Fixed Income - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.151	224.0.65.151	224.0.66.151	224.0.67.151	1015, 120151
		FBMU	Shaped	Optiq - Fixed Income - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.152	224.0.65.152			10152
	EFIL2-OPS	FBOU	Compressed	Optiq - Fixed Income - All - FBOU (Full Order Book data using Order Update messages) - Compressed Channels	100 MB	224.0.64.153	224.0.65.153	224.0.66.153	224.0.67.153	10153, 20153
		FBOU	Shaped	Optiq - Fixed Income - All - FBOU (Full Order Book data using Order Update messages) - Shaped Channels	1 GB	224.0.64.154	224.0.65.154			10154
	EFILP-IU EFILP-OPS	REFT	Compressed	Optiq - Fixed Income - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.150	224.0.65.150	224.0.66.150	224.0.67.150	10150, 20150

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT SYNAPSE* <i>(available in Last Price)</i>	ESYN-IU	APTR	Compressed	Optiq - Euronext Synapse - APA Trades Reports - Compressed Channels	100 MB	224.0.64.146	224.0.65.146	224.0.66.146	224.0.67.146	11146, 21146
	ESYN-OPS									
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQID-IU EQID-OPS	BBBO	Compressed	Optiq - Equity Derivatives - France - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.176	224.0.65.176	224.0.66.176	224.0.67.176	10176, 11176, 20176, 21176
		BBBO	Shaped	Optiq - Equity Derivatives - France - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.177	224.0.65.177			10177, 11177
		FBMU	Compressed	Optiq - Equity Derivatives - France - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.178	224.0.65.178	224.0.66.178	224.0.67.178	10178, 11178, 20178, 21178
		FBMU	Shaped	Optiq - Equity Derivatives - France - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.179	224.0.65.179			10179, 11179
		BBBO	Compressed	Optiq - Equity Derivatives - Netherlands - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.181	224.0.65.181	224.0.66.181	224.0.67.181	10181, 11181, 20181, 21181
		BBBO	Shaped	Optiq - Equity Derivatives - Netherlands - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.182	224.0.65.182			10182, 11182
		FBMU	Compressed	Optiq - Equity Derivatives - Netherlands - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.183	224.0.65.183	224.0.66.183	224.0.67.183	10183, 11183, 20183, 21183

*Until further notice. Euronext Synapse data is included in the Euronext APA Trades channel. If you have the ability to access to both products,(i.e. Euronext Synapse and Euronext APA Trades), you need to report for these products with the relevant reporting codes.

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQID-IU EQID-OPS	FBMU	Shaped	Optiq - Equity Derivatives - Netherlands - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.184	224.0.65.184			10184, 11184
		BBBO	Compressed	Optiq - Equity Derivatives - Other (Belgium & Portugal) - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.186	224.0.65.186	224.0.66.186	224.0.67.186	10186, 11186, 20186, 21186
		BBBO	Shaped	Optiq - Equity Derivatives - Other (Belgium & Portugal) - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.187	224.0.65.187			10187, 11187
		FBMU	Compressed	Optiq - Equity Derivatives - Other (Belgium & Portugal) - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.188	224.0.65.188	224.0.66.188	224.0.67.188	10188, 11188, 20188, 21188
		FBMU	Shaped	Optiq - Equity Derivatives - Other (Belgium & Portugal) - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.189	224.0.65.189			10189, 11189
		BBBO	Compressed	Optiq - Index Futures - France - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.191	224.0.65.191	224.0.66.191	224.0.67.191	10191, 11191, 20191, 21191
		BBBO	Shaped	Optiq - Index Futures - France - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.192	224.0.65.192			10192, 11192
		FBMU	Compressed	Optiq - Index Futures - France - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.193	224.0.65.193	224.0.66.193	224.0.67.193	10193, 11193, 20193, 21193
		FBMU	Shaped	Optiq - Index Futures - France - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.194	224.0.65.194			10194, 11194

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQID-IU EQID-OPS	FBMU	Unshaped	Optiq - Index Futures - France - FBMU (Full Order Book data using Market Update messages) - Unshaped Channels	10 GB	224.0.64.195	224.0.65.195			10195, 11195
		BBBO	Compressed	Optiq - Index Futures - Netherlands - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.201	224.0.65.201	224.0.66.201	224.0.67.201	10201, 11201, 20201, 21201
		BBBO	Shaped	Optiq - Index Futures - Netherlands - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.202	224.0.65.202			10202, 11202
		FBMU	Compressed	Optiq - Index Futures - Netherlands - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.203	224.0.65.203	224.0.66.203	224.0.67.203	10203, 11203, 20203, 21203
		FBMU	Shaped	Optiq - Index Futures - Netherlands - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.204	224.0.65.204			10204, 11204
		FBMU	Unshaped	Optiq - Index Futures - Netherlands - FBMU (Full Order Book data using Market Update messages) - Unshaped Channels	10 GB	224.0.64.205	224.0.65.205			10205, 11205
		BBBO	Compressed	Optiq - Index Options - France - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.221	224.0.65.221	224.0.66.221	224.0.67.221	10221, 11221, 20221, 21221
		BBBO	Shaped	Optiq - Index Options - France - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.222	224.0.65.222			10222, 11222
		FBMU	Compressed	Optiq - Index Options - France - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.223	224.0.65.223	224.0.66.223	224.0.67.223	10223, 11223, 20223, 21223

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQID-IU EQID-OPS	FBMU	Shaped	Optiq - Index Options - France - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.224	224.0.65.224			10224, 11224
		FBMU	Unshaped	Optiq - Index Options - France - FBMU (Full Order Book data using Market Update messages) - Unshaped Channels	10 GB	224.0.64.225	224.0.65.225			10225, 11225
		BBBO	Compressed	Optiq - Index Options - Netherlands - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.231	224.0.65.231	224.0.66.231	224.0.67.231	10231, 11231, 20231, 21231
		BBBO	Shaped	Optiq - Index Options - Netherlands - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.232	224.0.65.232			10232, 11232
		FBMU	Compressed	Optiq - Index Options - Netherlands - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.233	224.0.65.233	224.0.66.233	224.0.67.233	10233, 11233, 20233, 21233
		FBMU	Shaped	Optiq - Index Options - Netherlands - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.234	224.0.65.234			10234, 11234
		FBMU	Unshaped	Optiq - Index Options - Netherlands - FBMU (Full Order Book data using Market Update messages) - Unshaped Channels	10 GB	224.0.64.235	224.0.65.235			10235, 11235
		BBBO	Compressed	Optiq - Index Derivatives - Other (Belgium & Portugal) - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.241	224.0.65.241	224.0.66.241	224.0.67.241	10241, 11241, 20241, 21241
		BBBO	Shaped	Optiq - Index Derivatives - Other (Belgium & Portugal) - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.242	224.0.65.242			10242, 11242

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)	
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQID-IU	FBMU	Compressed	Optiq - Index Derivatives - Other (Belgium & Portugal) - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.243	224.0.65.243	224.0.66.243	224.0.67.243	10243, 11243, 20243, 21243	
		FBMU	Shaped	Optiq - Index Derivatives - Other (Belgium & Portugal) - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.244	224.0.65.244			10244, 11244	
	EQIDL-IU	EQIDL-OPS	REFT	Compressed	Optiq - Equity Derivatives - France - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.175	224.0.65.175	224.0.66.175	224.0.67.175	10175, 11175, 20175, 21175
			REFT	Compressed	Optiq - Equity Derivatives - Netherlands - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.180	224.0.65.180	224.0.66.180	224.0.67.180	10180, 11180, 20180, 21180
			REFT	Compressed	Optiq - Equity Derivatives - Other (Brussels & Lisbon) - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.185	224.0.65.185	224.0.66.185	224.0.67.185	10185, 11185, 20185, 21185
			REFT	Compressed	Optiq - Index Futures - France - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.190	224.0.65.190	224.0.66.190	224.0.67.190	10190, 11190, 20190, 21190
			REFT	Compressed	Optiq - Index Futures - Netherlands - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.200	224.0.65.200	224.0.66.200	224.0.67.200	10200, 11200, 20200, 21200
			REFT	Compressed	Optiq - Index Options - France - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.220	224.0.65.220	224.0.66.220	224.0.67.220	10220, 11220, 20220, 21220
			REFT	Compressed	Optiq - Index Options - Netherlands - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.230	224.0.65.230	224.0.66.230	224.0.67.230	10230, 11230, 20230, 21230

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT EQUITY AND INDEX DERIVATIVES <i>(available in Level 2 and Last Price)</i>	EQIDL-UI	REFT	Compressed	Optiq - Index Derivatives - Other (Brussels & Lisbon) - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.240	224.0.65.240	224.0.66.240	224.0.67.240	10240, 11240, 20240, 21240
	EQIDL-OPS									
EURONEXT COMMODITY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	COMD-UI	BBBO	Compressed	Optiq - Commodity Derivatives - All - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.246	224.0.65.246	224.0.66.246	224.0.67.246	10246, 20246
		BBBO	Shaped	Optiq - Commodity Derivatives - All - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.247	224.0.65.247			10247
	COMD-OPS	FBMU	Compressed	Optiq - Commodity Derivatives - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.248	224.0.65.248	224.0.66.248	224.0.67.248	10248, 20248
		FBMU	Shaped	Optiq - Commodity Derivatives - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.249	224.0.65.249			10249
	COMLP-UI	REFT	Compressed	Optiq - Commodity Derivatives - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.245	224.0.65.245	224.0.66.245	224.0.67.245	10245, 20245
	COMLP-OPS									
EURONEXT CURRENCY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	CURD-UI	BBBO	Compressed	Optiq - Currency Derivatives - All - BBBO (Best Bid & Offer) - Compressed Channels	100 MB	224.0.64.141	224.0.65.141	224.0.66.141	224.0.67.141	10141, 11141, 20141, 21141
	CURD-OPS	BBBO	Shaped	Optiq - Currency Derivatives - All - BBBO (Best Bid & Offer) - Shaped Channels	1 GB	224.0.64.142	224.0.65.142			10142, 11142

EURONEXT MARKET DATA INFORMATION PRODUCT	MARKET DATA PRODUCT CODE	TYPE OF DATA	DATA FORMAT	SFTI PRODUCT(S) ON ORDER FORM	CHANNEL SPEED	Multicast Group IP Feed A - Real-Time	Multicast Group IP Feed B - Real-Time	Multicast Group IP Feed A - Snapshot	Multicast Group IP Feed B - Snapshot	CHANNEL/SERVICE ID(S)
EURONEXT CURRENCY DERIVATIVES <i>(available in Level 2 and Last Price)</i>	CURD-IU	FBMU	Compressed	Optiq - Currency Derivatives - All - FBMU (Full Order Book data using Market Update messages) - Compressed Channels	100 MB	224.0.64.143	224.0.65.143	224.0.66.143	224.0.67.143	10143, 11143
	CURD-OPS	FBMU	Shaped	Optiq - Currency Derivatives - All - FBMU (Full Order Book data using Market Update messages) - Shaped Channels	1 GB	224.0.64.144	224.0.65.144			10144, 11144
	CURLP-IU CURLP-OPS	REFT	Compressed	Optiq - Currency Derivatives - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.140	224.0.65.140	224.0.66.140	224.0.67.140	10140, 11140, 20140, 21140
EURONEXT ATOMX FLEXIBLE DERIVATIVES Decommissioned per May 1st, 2019. <i>(available in Last Price)</i>	EFD-IU EDF-OPS	REFT	Compressed	Optiq - AtomX (for Flex Contract) - All - REFT (Trades & Referential Data) - Compressed Channels	100 MB	224.0.64.199	224.0.65.199	224.0.66.199	224.0.67.199	10199, 20199
EURONEXT APA TRADES <i>(available in Last Price)</i>	EETR-IU EETR-OPS	APTR	Compressed	Optiq - Euronext APA Trades Reports - Compressed Channels	100 MB	224.0.64.146	224.0.65.146	224.0.66.146	224.0.67.146	11146, 21146
EURONEXT APA (SI) QUOTES <i>(available in Level 2)</i>	EAPAQ-IU EAPAQ-OPS	APSI	Compressed	Optiq - Euronext APA (SI) Quotes-Compressed Channels	100 MB	224.0.64.145	224.0.65.145	224.0.66.145	224.0.67.145	11145, 21145

APPENDIX 5: ADDITIONAL EXPLANATION REGARDING THE EMDA REPORTING POLICY

Reporting your Internal Use of Information

Clause 4.2: When you are a member receiving real time data from Direct Access and/or an ASP/ESP service, you will need to report your internal use (trading activities) **directly** to Euronext via the -IU product codes.

But if you are also receiving data from a redistributor (information supplier) you will need to report this usage to the redistributor (indirectly).

Except if you are not approved as Natural User, then you do not need to report your real time data received by your vendor service **directly** to Euronext. For further reference, the reporting is described in the Natural User Application Guidelines.

Reporting Subscribers Approved to report Natural User

If the subscribers are approved to report Natural user, then you (as a redistributor) as Information Supplier of the Information, should report the provision of these subscribers via the –SDB or –DDB product codes. These –SDB and –DDB product codes are non-billable, 0 (zero) Euro, so the subscribers will not be billed twice.

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