

Document title

# EURONEXT NEXTHISTORY® DERIVATIVES CLIENT SPECIFICATION

Document type or subject

CLIENT SPECIFICATION

Revision number

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Date

13 Jan 2026

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## PREFACE

### DOCUMENT HISTORY

The following table provides a description of all changes to this document.

VERSION NO.	DATE	CHANGE DESCRIPTION
<b>1.0</b>	01 Mar 2016	Initial distribution
<b>1.1</b>	09 May 2016	<b>Planned for July 2016:</b> <ul style="list-style-type: none"> <li>“InstrumentISIN” field added to Referential File</li> </ul>
<b>1.2</b>	06 July 2016	Inclusion of “InstrumentISIN” in Referential File postponed until further notice
<b>1.3</b>	28 October 2016	Inclusion of “VolatilityForValuation” in EOD Summary Files
<b>1.3.1</b>	29 June 2017	<b>Effective 01 August 2017</b> <ul style="list-style-type: none"> <li>“InstrumentISIN” field added to Referential File (see page 11)</li> </ul>
<b>1.3.2.</b>	01 March 2021	<b>Effective 01 March 2021</b> <ul style="list-style-type: none"> <li>Change to the “TradeValueEuro” field to align with ESMA MiFID II requirements (see pages 17/18)</li> </ul>
<b>1.3.3</b>	09 September 2022	<b>(Effective 01 Sept 2022) – the following changes will be made</b> <ul style="list-style-type: none"> <li>Full Order Book (FOB) files will be added to the NextHistory offering</li> <li>OPTIQ MDG binary data (RAW) files (in PCAP format) will be added to the NextHistory offering</li> </ul>
<b>1.4</b>	26/01/2023	<b>(Effective 01 February 2023)</b> <ul style="list-style-type: none"> <li>File delivery via <b>SFTP</b> - except for the RAW Files - will become available (see section 3.4 – “FTP/SFTP Delivery”)</li> <li>File delivery via <b>HTTPS</b> will become available (see section 3.6 – “HTTPS Delivery”)</li> </ul> <b>(Effective 18 March 2023)</b> <ul style="list-style-type: none"> <li>File delivery via <b>FTP</b> will stop for all products, except for the RAW Files (see section 3.4 – “FTP/SFTP Delivery”)</li> </ul>
<b>1.4.1</b>	31/03/2023	<b>(Effective 22 April 2023)</b> <ul style="list-style-type: none"> <li>File delivery via <b>FTP</b> will stop for all products, <b>except for the RAW Files</b> (see section 3.4 – “FTP/SFTP Delivery”)</li> </ul>
<b>1.4.2</b>	19/03/2024	<b>(Effective 25 March 2024)</b> Addition of Borsa Italiana Derivatives to the NextHistory offering
<b>1.4.3</b>	27/02/2025	<b>(Effective 01 December 2025)</b> Addition of Nord Pool Derivatives to the NextHistory offering

VERSION NO.	DATE	CHANGE DESCRIPTION
1.4.4	13/01/2026	(Effective 13 April 2026) Inclusion of “PreExpiryRestrictedSession” in Referential File

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## CONTACT INFORMATION

For technical support, please contact the **Euronext Service Operations** at [serviceoperations@euronext.com](mailto:serviceoperations@euronext.com)

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## FURTHER INFORMATION

For additional product information, please contact us at [datasolutions@euronext.com](mailto:datasolutions@euronext.com).

CONTENTS

1. INTRODUCTION ..... 5

2. DATA OVERVIEW ..... 6

3. DATA FILES ..... 7

## 1. INTRODUCTION

Euronext NextHistory provides high-quality historical financial data that allows users to identify price trends and gain new insights into risk management and forecasting among other possible uses.

Coverage:

- Euronext markets (includes Euronext Oslo Bors)
- Borsa Italiana market
- Nord Pool market

**Table 1 Euronext NextHistory Derivatives Data Products**

	A END OF DAY PACKAGE	B TRADES PACKAGE (INCLUDES A)	C BBO PACKAGE (INCLUDES A AND B)	D FOB PACKAGE (INCLUDES A AND B)	E RAW PACKAGE
Referential Files	✓	✓	✓	✓	
EOD Summary Files	✓	✓	✓	✓	
Trade Files		✓	✓	✓	
BBO Files			✓		
FOB Files				✓	
RAW Files					✓

### 1.1 SOFTWARE REQUIREMENTS

Software for reading and processing data files should be purchased from a third-party supplier. Clients need to make sure that this software is capable of handling very large data files

END-OF-DAY, TRADES, BBO, FOB packages: ZIP compressed CSV files are provided.

RAW package: GZ compressed PCAP files are provided. Euronext does not provide a file decoder.

## 2. DATA OVERVIEW

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Euronext NextHistory Derivatives is stored in the following files.

FILE NAME	CONTENTS
Referential Files	Historical referential data for contracts listed/traded on Euronext Derivatives markets. Offers one file covering all Euronext markets. Separate files for Borsa Italiana derivatives market and Nord Pool power derivatives
End of Day Files	Historical end-of-day summary data for contracts listed/traded on Euronext Derivatives markets. Offers one file covering all Euronext markets. Separate files for Borsa Italiana derivatives market and Nord Pool power derivatives
Trade Files	Historical trade data for contracts listed/traded on Euronext Derivatives markets. Offers one file covering all Euronext markets. Separate files for Borsa Italiana derivatives market and Nord Pool power derivatives
BBO Files	Historical best bid and offer (L1) data for contracts listed/traded on Euronext Derivatives markets. Offers one file covering all Euronext markets. Separate files for Borsa Italiana derivatives market and Nord Pool power derivatives
FOB Files	Incremental order updates
RAW	As detailed in the OPTIQ MDG Client Specification and OPTIQ MDG Connectivity documentation available on Euronext's website

### 3. DATA FILES

#### 3.1 FILE FORMAT

##### END-OF-DAY, TRADES, BBO, FOB files

- All files are in CSV format (ZIP compressed). The field delimiter is a semicolon.
- All numerical values follow standard international practice (decimal separator is a point).

##### RAW files

- All files are in PCAP format.

#### 3.2 FILE AVAILABILITY

There is no fixed availability time for Euronext NextHistory Derivatives files. The files are made available on the ftp servers as soon as they are ready and the availability of the files varies per day.

#### 3.3 FILE NAMING CONVENTION

FILE TYPE	FILE NAME
Referential File (Euronext)	DER_EU_ENXT_ALL_REF_yyyymmdd
Referential File (Borsa Italiana)	DER_BIT_ALL_REF_yyyymmdd
Referential File (Nord Pool)	DER_EU_NP_ALL_REF_yyyymmdd
End of Day Summary File (Euronext)	DER_EU_ENXT_ALL_SUM_yyyymmdd
End of Day Summary File (Borsa Italiana)	/DER_BIT_ALL_SUM_yyyymmdd
End of Day Summary File (Nord Pool)	DER_EU_NP_ALL_SUM_yyyymmdd
Trade File (Euronext)	DER_EU_ENXT_ALL_TRADE_yyyymmdd
Trade File (Borsa Italiana)	DER_BIT_ALL_TRADE_yyyymmdd
Trade File (Nord Pool)	DER_EU_NP_ALL_TRADE_yyyymmdd
BBO File (Euronext)	DER_EU_ENXT_ALL_BBO_yyyymmdd
BBO File (Borsa Italiana)	DER_BIT_ALL_BBO_yyyymmdd
BBO File (Nord Pool)	DER_EU_NP_ALL_BBO_yyyymmdd
FOB File	<MARKET_PLACE>_<PRODUCT_GROUP>_<INSTRUMENT2D>_yyymmdd
RAW	mdg.<IP ADDRESS>.yyymmdd

where

- `yyyymmdd` refers to the creation date of the file
- `<MARKET_PLACE>` refers to AMS, BRU, LIS, OSL or PAR
- `<PRODUCT_GROUP>` refers to the asset class (Equity, Index or Commodities)
- `<INSTRUMENT2D>` refers to the last two digits of the `instrument_ids_code` (internal code)
- `<IP ADDRESS>` refers to the IP address of the OPTIQ MDG channel

### 3.4 SFTP DELIVERY

The files are available via SFTP:

- Host: `data.prodnr.euronext.cloud`
- Port: 22000

Please refer to the Data Shop SFTP Guide (available [here](#)) for instructions on how to set up your sftp account.

### 3.5 SFTP FILE LOCATION

FILE TYPE	DIRECTORIES
Referential File (Euronext)	/DER_EU_ENXT_ALL_REF Most Recent File <ul style="list-style-type: none"> <li>• DER_EU_ENXT_ALL_REF/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>• DER_EU_ENXT_ALL_REF/DER_EU_ENXT_ALL_REF_yyyy/ DER_EU_ENXT_ALL_REF_yyyymm</li> </ul>
Referential File (Borsa Italiana)	/DER_BIT_ALL_SUM Most Recent File <ul style="list-style-type: none"> <li>• DER_BIT_ALL_REF/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>• DER_BIT_ALL_REF/DER_BIT_ALL_REF_yyyy/DER_BIT_AL L_REF_yyyymm</li> </ul>
Referential File (Nord Pool)	/DER_EU_NP_REF Most Recent File <ul style="list-style-type: none"> <li>• DER_EU_NP_REF/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>• DER_EU_NP_ALL_REF/DER_EU_NP_ALL_REF_yyyy/ DER_EU_NP_ALL_REF_yyyymm</li> </ul>
End of Day Summary File (Euronext)	/DER_EU_ENXT_ALL_SUM Most Recent File



	<ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_SUM/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_SUM/DER_EU_ENXT_ALL_SUM_yyyy/DER_EU_ENXT_ALL_SUM_yyyymm</li> </ul>
End of Day Summary File (Borsa Italiana)	<p>/DER_BIT_ALL_SUM</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_SUM/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_SUM/DER_BIT_ALL_SUM_yyyy/DER_BIT_ALL_SUM_yyyymm</li> </ul>
End of Day Summary File (Nord Pool)	<p>/DER_EU_NP_ALL_SUM</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_SUM/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_SUM/DER_EU_NP_ALL_SUM_yyyy/DER_EU_NP_ALL_SUM_yyyymm</li> </ul>
Trade File (Euronext)	<p>/DER_EU_ENXT_ALL_TRADE</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_TRADE/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_TRADE/DER_EU_ENXT_ALL_TRADE_yyyy/DER_EU_ENXT_ALL_TRADE_yyyymm</li> </ul>
Trade File (Borsa Italiana)	<p>/DER_BIT_ALL_TRADE</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_TRADE/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_TRADE/DER_BIT_ALL_TRADE_yyyy/DER_BIT_ALL_TRADE_yyyymm</li> </ul>
Trade File (Nord Pool)	<p>/DER_EU_NP_ALL_TRADE</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_TRADE/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_TRADE/DER_EU_NP_ALL_TRADE_yyyy/DER_EU_NP_ALL_TRADE_yyyymm</li> </ul>
BBO File (Euronext)	<p>/DER_EU_ENXT_ALL_BBO</p> <p>Most Recent File</p>

	<ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_BBO/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_ENXT_ALL_BBO/DER_EU_ENXT_ALL_BBO_yyy y/DER_EU_ENXT_ALL_BBO_yyyymm</li> </ul>
BBO File (Borsa Italiana)	<p>/DER_BIT_ALL_BBO</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_BBO/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_BIT_ALL_BBO/DER_BIT_ALL_BBO_yyyy/DER_BIT_A LL_BBO_yyyymm</li> </ul>
BBO File (Euronext)	<p>/DER_EU_NP_ALL_BBO</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_BBO/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_NP_ALL_BBO/DER_EU_NP_ALL_BBO_yyyy/DE R_EU_NP_ALL_BBO_yyyymm</li> </ul>
FOB File (Euronext)	<p>Most Recent File / Historical Archive</p> <ul style="list-style-type: none"> <li>DER_EU_ENXT_MARKET PLACE*_ASSET CLASS**_FOB</li> </ul> <p>*Possible values for Market Place: AMS, BRU, LIS, OSL, PAR</p> <p>**Possible values for Asset Class: EQUITY, INDEX, COMMODITY</p> <p>Include Nord Pool? Separate files DER_EU_NP_MARKET PLACE*_ASSET CLASS**_FOB ??</p>
RAW – Euronext Commodities	<p>/DER_EU_ENXT_COM_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_COM_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_COM_RAW/DER_EU_ENXT_COM_RAW _yyyy/DER_EU_ENXT_COM_RAW_yyyymm</li> </ul>
RAW – Euronext Index Futures – France	<p>/DER_EU_ENXT_EQY-IND-FUT-FR_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT-FR_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT- FR_RAW/DER_EU_ENXT_EQY-IND-FUT- FR_RAW_yyyy/DER_EU_ENXT_EQY-IND-FUT- FR_RAW_yyyymm</li> </ul>

RAW – Euronext Index Futures – Netherlands	<p>/DER_EU_ENXT_EQY-IND-FUT-NL_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT-NL_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT-NL_RAW/DER_EU_ENXT_EQY-IND-FUT-NL_RAW_yyyy/DER_EU_ENXT_EQY-IND-FUT-NL_RAW_yyyymm</li> </ul>
RAW – Euronext Index Futures – Milan	<p>/DER_EU_ENXT_IND-FUT-IT_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-FUT-IT_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-FUT-IT_RAW/DER_EU_ENXT_IND-FUT-IT_RAW_yyyy/DER_EU_ENXT_IND-FUT-IT_RAW_yyyymm</li> </ul>
RAW – Euronext Index Futures – Other	<p>/DER_EU_ENXT_EQY-IND-FUT-BE-PT_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT-BE-PT_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-IND-FUT-BE-PT_RAW/DER_EU_ENXT_EQY-IND-FUT-BE-PT_RAW_yyyy/DER_EU_ENXT_EQY-IND-FUT-BE-PT_RAW_yyyymm</li> </ul>
RAW – Euronext Equity Derivatives - France	<p>/DER_EU_ENXT_EQY-OPT-FR_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-FR_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-FR_RAW/DER_EU_ENXT_EQY-OPT-FR_RAW_yyyy/DER_EU_ENXT_EQY-OPT-FR_RAW_yyyymm</li> </ul>
RAW – Euronext Equity Derivatives - Netherlands	<p>/DER_EU_ENXT_EQY-OPT-NL_RAW</p> <p>Most Recent File</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-NL_RAW/CURRENT</li> </ul> <p>Historical Archive</p> <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-NL_RAW/DER_EU_ENXT_EQY-OPT-</li> </ul>

	NL_RAW_YYYY/DER_EU_ENXT_EQY-OPT-NL_RAW_YYYYMM
RAW – Euronext Equity Derivatives - Milan	/DER_EU_ENXT_EQY-OPT-IT_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-IT_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-IT_RAW/DER_EU_ENXT_EQY-OPT-IT_RAW_YYYY/DER_EU_ENXT_EQY-OPT-IT_RAW_YYYYMM</li> </ul>
RAW – Euronext Equity Derivatives – Other	/DER_EU_ENXT_EQY-OPT-BE_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-BE_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_EQY-OPT-BE_RAW/DER_EU_ENXT_EQY-OPT-BE_RAW_YYYY/DER_EU_ENXT_EQY-OPT-BE_RAW_YYYYMM</li> </ul>
RAW – Euronext Index Options - France	/DER_EU_ENXT_IND-OPT-FR_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-FR_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-FR_RAW/DER_EU_ENXT_IND-OPT-FR_RAW_YYYY/DER_EU_ENXT_IND-OPT-FR_RAW_YYYYMM</li> </ul>
RAW – Euronext Index Options – Netherlands	/DER_EU_ENXT_IND-OPT-NL_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-NL_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-NL_RAW/DER_EU_ENXT_IND-OPT-NL_RAW_YYYY/DER_EU_ENXT_IND-OPT-NL_RAW_YYYYMM</li> </ul>
RAW – Euronext Index Options – Milan	/DER_EU_ENXT_IND-OPT-IT_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-IT_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-IT_RAW/DER_EU_ENXT_IND-OPT-IT_RAW_YYYY/DER_EU_ENXT_IND-OPT-IT_RAW_YYYYMM</li> </ul>

RAW – Euronext Index Options – Other	/DER_EU_ENXT_IND-OPT-BE_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-BE_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_ENXT_IND-OPT-BE_RAW/DER_EU_ENXT_IND-OPT-BE_RAW_yyyy/DER_EU_ENXT_IND-OPT-BE_RAW_yyyymm</li> </ul>
RAW – Nord Pool Power Derivatives	/DER_EU_NP_COM_RAW Most Recent File <ul style="list-style-type: none"> <li>/DER_EU_NP_COM_RAW/CURRENT</li> </ul> Historical Archive <ul style="list-style-type: none"> <li>/DER_EU_NP_COM_RAW/DER_EU_NP_COM_RAW_yyyy/DER_EU_NP_COM_RAW_yyyymm</li> </ul>

### 3.6 HTTPS DELIVERY

The files are also available on <https://live.euronext.com/en/user/datashop/files> using the client's credentials.

MY DATA SHOP

My SFTP Settings
My Licenses
My Files

Product Type
From
To

- select -
DD/MM/YYYY
DD/MM/YYYY

Search

File name...

Apply
Reset

FILE NAME
PRODUCT
LICENSE EXPIRATION
FILE UPDATED
FILE SIZE

No records found for that specific search

### 3.7 FILE LAYOUTS

Each NextHistory Derivatives file has the following structure :

- The header record (one per trading day)
  - Record Type = 'H';
- The Descriptor Record (one per trading day)
  - Record Type = 'D';
- The body record (x per trading day, x > 0)
  - Record Type can take the following values:
    - RO = Referential Outright Data
    - RS = Referential Strategy Data
    - E = EOD Summary Data
    - T = Trade data
    - B = BBO Data;
- The footer record (one per trading day)
  - Record Type = 'F'.

All body records have a variable length and each field is separated by a semicolon.

#### **Header & Footer Records**

Each of the NextHistory Derivatives files uses the same structure for the Header record and the same structure for the Footer record.

The structure of the Header record is the following:

#### **Header Record**

FIELD NAME	FIELD TYPE	DESCRIPTION
RecordType	Alphanumeric	'H' = Header
FileIdentifier	Alphanumeric	File name (please refer to each file description)
GenerationDateTime	Alphanumeric	Date and START time of file generation trigger according to the System Clock [YYYY-MM-DD hh:mm:ss]

The structure of Footer record is the following:

#### Footer Record

FIELD NAME	FIELD TYPE	DESCRIPTION
RecordType	Alphanumeric	'F' = Footer
Footer	Alphanumeric	File name (please refer to each file description)
CompletionDateTime	Alphanumeric	Date and END time of file generation trigger according to the System Clock

#### Referential File

There is one descriptor a day in Referential Data file (located after the header record).

Each Referential Data Body record is split up in three consecutive parts :

- First part of Referential Data Record contains contract level information. This data is available for both outright and strategy instruments.
- Second part of Referential Data Record contains instrument level information.
- Third part of Referential Data Record contains only strategy information (i.e. the definition of the strategy).

Referential Data body records are structured as followed :

FIELD NAME	FIELD TYPE	DESCRIPTION
RecordType	Alphanumeric	Identifier indicating the type of record. <ul style="list-style-type: none"> <li>• RO= Referential Outright Data Record</li> <li>• RS= Referential Strategy Data Record</li> </ul>
Market Place	Alphanumeric	Market Place: <ul style="list-style-type: none"> <li>• AMS = Amsterdam</li> <li>• BRU = Brussels</li> <li>• LIS = Lisbon</li> <li>• OSL = Oslo (as of 7 Dec 2020)</li> <li>• PAR = Paris</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>MIL=Milan (as of 25 March 2024)</li> </ul>
Asset Class	Alphanumeric	Asset Class <ul style="list-style-type: none"> <li>DRV = Derivatives</li> </ul>
Asset Group	Alphanumeric	Asset Group <ul style="list-style-type: none"> <li>CUR = Currency</li> <li>EQU = Equity</li> <li>IND = Index</li> <li>COM = Commodity</li> </ul>
ExchangeName	Alphanumeric	Long Name of the exchange.
Market Id Code	Alphanumeric	MIC – Place of Trading (Market Place). Empty if not available.
ExchangeCode	Alphanumeric	A code typically indicating the exchange on which a contract trades. <ul style="list-style-type: none"> <li>A: Amsterdam - Equity Products</li> <li>B: Brussels - Equity Products</li> <li>F: Brussels - Index Products</li> <li>J: Paris - Index Products</li> <li>K: Amsterdam - Index Products</li> <li>M: Lisbon - Index Products</li> <li>N: Oslo Index Derivatives (as of 7 Dec 2020)</li> <li>O: Oslo Equity Derivatives (as of 7 Dec 2020)</li> <li>P: Paris - Equity Products</li> <li>R: Amsterdam - Commodity Products</li> <li>S: Lisbon - Equity Products</li> <li>Y: Paris - Commodity Products</li> <li>Z: Amsterdam - Currency Products</li> </ul>



FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>• E: Milan Equity Products (as of 25 March 2024)</li> <li>• I: Milan Index Products (as of 25 March 2024)</li> <li>• V: Euronext Amsterdam – Other Commodities (as of end of 2025)</li> </ul>
InstrumentType	Alphanumeric	Instrument Type as defined by the exchange.  F - Future  O - Option
InstrumentTrading Symbol	Alphanumeric	Official Exchange Trading Symbol of Instrument.
InstrumentName	Alphanumeric	Full name of Instrument / Class.
ExerciseType	Alphanumeric	Exercise type of instrument. For Options only. <ul style="list-style-type: none"> <li>• E - European style</li> <li>• A - American style</li> <li>• Blank, if not applicable.</li> </ul>
ContractCurrency	Alphanumeric	Trading currency of the contract (ISO Currency Code)
SettlementMethod	Alphanumeric	Settlement Method: <ul style="list-style-type: none"> <li>• C – Cash settlement</li> <li>• P – Physical settlement</li> </ul>
Notional Tick Value	Decimal/Floating Point	The tick value per point of the instrument  Contract level value
UnderlyingISIN	Alphanumeric	ISIN code of underlying instrument, where applicable.
Underlying Exchange Code	Alphanumeric	A code typically indicating the exchange on which a contract trades. <ul style="list-style-type: none"> <li>• A: Amsterdam - Equity Products</li> <li>• B: Brussels - Equity Products</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>• F: Brussels - Index Products</li> <li>• J: Paris - Index Products</li> <li>• K: Amsterdam - Index Products</li> <li>• M: Lisbon - Index Products</li> <li>• N: Oslo Index Derivatives (as of 7 Dec 2020)</li> <li>• O: Oslo Equity Derivatives (as of 7 Dec 2020)</li> <li>• P: Paris - Equity Products</li> <li>• R: Amsterdam - Commodity Products</li> <li>• S: Lisbon - Equity Products</li> <li>• Y: Paris - Commodity Products</li> <li>• Z: Amsterdam - Currency Products</li> <li>• E: Milan Equity Products (as of 25 March 2024)</li> <li>• I: Milan Index Products (as of 25 March 2024)</li> <li>• V: Euronext Amsterdam – Other Commodities (as of end of 2025)</li> </ul>
Underlying Instrument Type	Alphanumeric	Instrument Type of the underlying as defined by the exchange e.g. <ul style="list-style-type: none"> <li>• F = Future</li> <li>• S = Stock</li> <li>• I = Index</li> <li>• U = Pseudo Underlyings – pricing purposes only</li> <li>• X = Exchange Rate</li> </ul>
Underlying Instrument Trading Symbol	Alphanumeric	Official Exchange Trading Symbol of the underlying instrument
InstrumentID	Alphanumeric	A unique identifier for the derivative instrument

FIELD NAME	FIELD TYPE	DESCRIPTION
InstrumentISIN (included on 01 August 2017)	Alphanumeric	ISIN code of the derivative instrument. The ISIN code will be available for outright contracts only.
BDM Instrument Code	Numeric/Integer	BDM Internal Instrument Code (BDM is Euronext's database)
ExpiryDate	Numeric/Integer	Expiry date of instrument. (yyyymmdd)
ExercisePrice	Numeric/Integer	For Options only.  The exercise (strike) price of the Option instrument in integer tick representation.  Shows '0' for Futures and Strategies
ActualExercisePrice	Decimal/Floating Point	For Options only.  The actual exercise (strike) price of instrument. (calculated using the ExercisePriceDecimalLocator and ExercisePriceDenominator)  Shows '0' for Futures and Strategies
ExercisePriceDecimal Locator (L)	Numeric/Integer	For Options only (used in calculating the actual exercise price).
ExercisePrice Denominator (D)	Numeric/Integer	For Options only (used in calculating the actual exercise price).
OptionCategory	Alphanumeric	Refers to the option category for options : <ul style="list-style-type: none"> <li>• C – Call</li> <li>• P – Put</li> </ul> Refers to the type of instrument for futures and strategies <ul style="list-style-type: none"> <li>• F – Future</li> <li>• S - Strategy</li> </ul>
LotSize	Numeric/Integer	Trading lot
IntradayCreation	Alphanumeric	Intraday Creation : "Y" Not Intraday Creation : Empty
StrategyMarketCode	Alphanumeric	Indicates the type of strategy listed (e.g. Calendar Spread). Please check list of strategies available on Euronext's website.

FIELD NAME	FIELD TYPE	DESCRIPTION
StrategyLegsNumber	Numeric/Integer	Number of legs of that make up the strategy
Leg1InstrumentID	Alphanumeric	A unique identifier for the outright leg instrument. Corresponds to the Exchange Instrument ID for the future/option/underlying leg instrument.
Leg1Side	Alphanumeric	Buy (+) or Sell (-)
Leg1Ratio	Numeric/Integer	Ratio of this leg compared to other legs of strategy
Leg1Price	Decimal/Floating Point	Price at which the underlying contingent leg for Delta Neutral and Conversion Reversal strategies must trade
Leg1Number	Numeric/Integer	Leg Number 1
...	...	...
Leg50InstrumentID	Alphanumeric	A unique identifier for the outright leg instrument. Corresponds to the Exchange Instrument ID for the future/option/underlying leg instrument.
Leg50Side	Alphanumeric	Buy (+) or Sell (-)
Leg50Ratio	Numeric/Integer	Ratio of this leg compared to other legs of strategy
Leg50Price	Decimal/Floating Point	Price at which the Underlying contingent leg for Delta Neutral and Conversion Reversal strategies must trade
Leg50Number	Numeric/Integer	Leg Number 50
UnderlyingSubtype	Alphanumeric	20: NRGY – Energy *For Power Derivatives
UnderlyingSubProduct	Alphanumeric	ELEC: Electricity *For Power Derivatives
UnderlyingFurtherSubProduct	Alphanumeric	BSLD: Base Load *For Power Derivatives
ExpiryCycleType	Alphanumeric	1: Daily 2: Weekly

FIELD NAME	FIELD TYPE	DESCRIPTION
		3: Monthly 4: Quarterly 5: Half-Yearly 6: Yearly <i>*For Power Derivatives</i>
DeliveryStartDate	Numeric/Integer	Delivery start date dd.mm.yyyy <i>*For Power Derivatives</i>
DeliveryEndDate	Numeric/Integer	Delivery end date dd.mm.yyyy <i>*For Power Derivatives</i>
PreExpiryRestrictedSession	Alphanumeric	Flag indicating whether a derivative instrument is subject to a restricted trading session prior expiry <ul style="list-style-type: none"> <li>• 'Y' - Yes</li> <li>• 'N' - No</li> </ul>

### End of Day Summary File

There is one descriptor a day in EOD Summary file (located after the header record).

Each EOD file detail is structured as followed:

FIELD NAME	FIELD TYPE	DESCRIPTION
RecordType	Alphanumeric	Identifier indicating the type of record. <ul style="list-style-type: none"> <li>• E = End Of Day Record</li> </ul>
Market Place	Alphanumeric	Market Place: <ul style="list-style-type: none"> <li>• AMS = Amsterdam</li> <li>• BRU = Brussels</li> <li>• LIS = Lisbon</li> <li>• OSL = Oslo (as of 7 Dec 2020)</li> <li>• PAR = Paris</li> <li>• MIL= Milan (as of 25 March 2024)</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
Asset Class	Alphanumeric	Asset Class <ul style="list-style-type: none"> <li>• DRV = Derivatives</li> </ul>
Asset Group	Alphanumeric	Asset Group <ul style="list-style-type: none"> <li>• CUR = Currency</li> <li>• EQU = Equity</li> <li>• IND = Index</li> <li>• COM = Commodity</li> </ul>
ExchangeCode	Alphanumeric	A code typically indicating the exchange on which a contract trades. <ul style="list-style-type: none"> <li>• A: Amsterdam - Equity Products</li> <li>• B: Brussels - Equity Products</li> <li>• F: Brussels - Index Products</li> <li>• J: Paris - Index Products</li> <li>• K: Amsterdam - Index Products</li> <li>• M: Lisbon - Index Products</li> <li>• N: Oslo Index Derivatives (as of 7 Dec 2020)</li> <li>• O: Oslo Equity Derivatives (as of 7 Dec 2020)</li> <li>• P: Paris - Equity Products</li> <li>• R: Amsterdam - Commodity Products</li> <li>• S: Lisbon - Equity Products</li> <li>• Y: Paris - Commodity Products</li> <li>• Z: Amsterdam - Currency Products</li> <li>• E: Milan Equity Products (as of 25 March 2024)</li> <li>• I: Milan Index Products (as of 25 March 2024)</li> </ul>
InstrumentType	Alphanumeric	Instrument Type as defined by the exchange:

FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>• F – Future</li> <li>• O – Option</li> </ul>
InstrumentTrading Symbol	Alphanumeric	Official Exchange Trading Symbol of instrument.
InstrumentID	Alphanumeric	A unique identifier for the derivative instrument.
ExpiryDate	Alphanumeric	Expiry date of instrument. (yyyymmdd)
ExercisePrice	Numeric/Integer	For Options only.  The exercise (strike) price of the Option instrument in integer tick representation.  Shows '0' for Futures and Strategies
ActualExercisePrice	Decimal/Floating Point	For Options only.  The actual exercise (strike) price of instrument. (calculated using the ExercisePriceDecimalLocator and ExercisePriceDenominator)  Shows '0' for Futures and Strategies
OptionCategory	Alphanumeric	Refers to the option category for options : <ul style="list-style-type: none"> <li>• C – Call</li> <li>• P – Put</li> </ul> Refers to the type of instrument for futures and strategies <ul style="list-style-type: none"> <li>• F – Future</li> <li>• S - Strategy</li> </ul>
Open	Decimal/Floating Point	Opening book trade price for the current day.
High	Decimal/Floating Point	Highest book trade price for the current day.
Low	Decimal/Floating Point	Lowest book trade price for the current day.
Trade Count	Numeric/Integer	Number of executed trades for the current day.
Close	Decimal/Floating Point	Close price for the instrument.

FIELD NAME	FIELD TYPE	DESCRIPTION
Settlement	Decimal/Floating Point	Settlement price for the instrument.
COB Volume	Numeric/Integer	Total daily volume of trades executed through Central Order Book.
Off-COB Volume	Numeric/Integer	Total daily volume of trades reported through ATOMX.
Total Volume	Numeric/Integer	Total daily volume of all trades, both through Central Order Book and Bclear.
Open Interest	Numeric/Integer	Open Interest for the instrument.
Open Interest Date	Alphanumeric	Date to which the Open Interest applies. (yyyymmdd)
End of Day Delta	Numeric/Integer	End of Day Delta (varies between -100 and 100)
Volatility	Numeric/Integer	Volatility (in percentage points e.g. 44 = 44%)
VolatilityForValuation	Decimal/Floating Point	Volatility (in percentage points, with three decimals)

### Trade File

There is one descriptor a day in Trade file (located after the header record).

Each Trade file body record is structured as followed:

FIELD NAME	FIELD TYPE	DESCRIPTION
Record Type	Alphanumeric	Identifier indicating the type of record. <ul style="list-style-type: none"> <li>T = Trade Data Record.</li> </ul>
Market Place	Alphanumeric	Market Place: <ul style="list-style-type: none"> <li>AMS = Amsterdam</li> <li>BRU = Brussels</li> <li>LIS = Lisbon</li> <li>OSL = Oslo (as of 7 Dec 2020)</li> <li>PAR = Paris</li> <li>MIL=Milan (as of 25 March 2024)</li> </ul>
Asset Class	Alphanumeric	Asset Class



FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>• DRV = Derivatives</li> </ul>
Asset Group	Alphanumeric	Asset Group <ul style="list-style-type: none"> <li>• CUR = Currency</li> <li>• EQU = Equity</li> <li>• IND = Index</li> <li>• COM = Commodity</li> </ul>
Instrument Id	Alphanumeric	The unique identifier for the derivative instrument.
Code Inst BDM	Alphanumeric	BDM Internal Instrument Code (BDM is Euronext's database)
Trading Event Number	Alphanumeric	Trading Event Number Reinitialized every day
Matched Trade Id	Alphanumeric	Trade Identification Code Never reinitialized
Trade For Clearing Id	Alphanumeric	Trade For Clearing Identifier. The last character of this identifier allows to determine the execution venue: <ul style="list-style-type: none"> <li>• '0': OnExchange trade (Normal Trade)</li> <li>• '9': OnExchangeOffBook Trade (Wholesale Trade)</li> <li>• '8': OffBook Trade (ATOMX Trade)</li> </ul>
Cross Trade Type	Alphanumeric	Normal Market: <ul style="list-style-type: none"> <li>• Blank for Trades (different members)</li> <li>• 'T' for Member Cross (different traders from the same member)</li> <li>• 'S' for Trader Cross (same trader)</li> <li>• Specific values for Ex-pits:</li> <li>• Blank for Prof Trades</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>• '2' for Basis Trade and Asset Allocation</li> <li>• 'S' for Block Trade, Against Actual, Guaranteed Cross and Exchange For Swap</li> </ul>
Wholesale Trade Type	Alphanumeric	Blank = Normal Trade Wholesale trade type <ul style="list-style-type: none"> <li>• '1' = Block Trade</li> <li>• '2' = Basis Trade</li> <li>• '3' = Against Actual</li> <li>• '4' = Asset Allocation</li> <li>• '5' = Professional</li> <li>• '6' = Guaranteed Cross</li> <li>• '7' = Exchange For Swap</li> </ul>
Trade Price	Decimal/Floating Point	Price of the trade. Always a positive value.
Trade Volume	Numeric/Integer	Volume of the trade
Trade Value Euro	Decimal/Floating Point	Before 01 March 2021 = TradePrice x TradeVolume As of March 2021 <ul style="list-style-type: none"> <li>• Futures: TradeVolume x TradePrice x LotSize x FX rate</li> <li>• Options: TradeVolume x ExercisePrice x LotSize x FX rate</li> </ul>
Trade Date	Alphanumeric	Date when the trade occurred (yyyymmdd)
Trade Time	Alphanumeric	Time when the trade occurred (hhmmssmmmmμμμ)
Session Id	Alphanumeric	Session in which trade occurred. <ul style="list-style-type: none"> <li>• '2' = Morning/Afternoon</li> <li>• '3' = Evening</li> </ul>
Trading Day	Alphanumeric	Trading Day Date (yyyymmdd)
Trade Cancellation Flag	Alphanumeric	Trade Cancellation Flag <ul style="list-style-type: none"> <li>• '1': Valid Trade</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
		<ul style="list-style-type: none"> <li>'2': Cancelled Trade</li> </ul>
Trade Cancellation Time	Alphanumeric	Trade Cancellation Time (hh:mm:ss.mmm)

## BBO File

There is one descriptor a day in the BBO file (located after the header record).

Each BBO file detail is structured as followed:

FIELD NAME	FIELD TYPE	DESCRIPTION
RecordType	Alphanumeric	Identifier indicating the type of record. <ul style="list-style-type: none"> <li>B = Best Bid and Offer Record.</li> </ul>
Market Place	Alphanumeric	Market Place: <ul style="list-style-type: none"> <li>AMS = Amsterdam</li> <li>BRU = Brussels</li> <li>LIS = Lisbon</li> <li>OSL = Oslo (as of 7 Dec 2020)</li> <li>PAR = Paris</li> <li>MIL=Milan (as of 25 March 2024)</li> </ul>
Asset Class	Alphanumeric	Asset Class: <ul style="list-style-type: none"> <li>DRV = Derivatives</li> </ul>
Asset Group	Alphanumeric	Asset Group: <ul style="list-style-type: none"> <li>CUR = Currency</li> <li>EQU = Equity</li> <li>IND = Index</li> <li>COM = Commodity</li> </ul>
InstrumentID	Alphanumeric	The unique identifier for the derivative instrument.
BDM Instrument Code	Alphanumeric	BDM Internal Instrument Code (BDM is Euronext's database)

FIELD NAME	FIELD TYPE	DESCRIPTION
Trading Event Number	Alphanumeric	Trading Event Number Reinitialized every day
BBO Timestamp	Alphanumeric	Timestamp BBO was updated (yyyymmddHHMMSSsss date time)
BBO Type	Alphanumeric	BBO Type <ul style="list-style-type: none"> <li>• I=Implied</li> <li>• B=BBO</li> </ul>
Best Bid	Decimal/Floating Point	Best Bid Price. Can be a positive or a negative value.
Best Bid Qty	Numeric/Integer	Best Bid Volume
Best Offer	Decimal/Floating Point	Best Offer Price. Can be a positive or a negative value.
Best Offer Qty	Numeric/Integer	Best Offer Volume

Please note that, due to the amount of data involved, the BBO file generation process pads records with spaces when they are added to the file. This way, for records type B, any spaces present after the last semi-colon delimiter should be ignored.

### FOB File

There is one descriptor a day in the FOB file (located after the header record).

Each FOB file detail is structured as followed:

FIELD NAME	FIELD TYPE	DESCRIPTION
Instrument trading symbol	Alphanumeric	Exchange Trading Symbol of Instrument. Also known as Automated Market Reference (AMR)

FIELD NAME	FIELD TYPE	DESCRIPTION
Symbol index	Numeric/Integer	A unique system-wide identifier (in private and public messages) assigned to a trading instrument in Optiq
Product group	Alphanumeric	Underlying asset product group. Possible values: <ul style="list-style-type: none"> <li>• Equity</li> <li>• Index</li> <li>• Commodity</li> </ul>
Sequence date	DD/MM/YYYY	Date of the event
Sequence time UTC	HH:MM:SS:mmmmμμμnnn	Time of the event in UTC time
Sequence time CET	HH:MM:SS:mmmmμμμnnn	Time of the event in CET time
Sequence number	Alphanumeric	Sequence number of the event
EMM	Alphanumeric	Possible values: <ul style="list-style-type: none"> <li>• COB (Central Order Book)</li> <li>• RFC (Request for Cross)</li> </ul>
Event id	Numeric/Integer	Event id
Order id	Numeric/Integer	Unique order id
Order event type	Alphanumeric	Possible values: <ul style="list-style-type: none"> <li>• Cancel</li> <li>• Fill</li> <li>• Modify</li> <li>• New</li> <li>• Implicit</li> <li>• Reload</li> </ul>

FIELD NAME	FIELD TYPE	DESCRIPTION
Order side	Alphanumeric	Possible values: <ul style="list-style-type: none"> <li>• Buy</li> <li>• Sell</li> <li>• Cross</li> </ul>
Order price	Decimal/Floating Point	Limit price of the order
Order size	Decimal/Floating Point	Order size
Order type	Alphanumeric	Possible values: <ul style="list-style-type: none"> <li>• Limit</li> <li>• Implied</li> <li>• Market</li> <li>• Post Trade Implied</li> </ul>
Execution id	Numeric/Integer	The execution id of a trade related to the order
Trade size	Decimal/Floating Point	The size of a trade related to the order
Trade price	Decimal/Floating Point	The price of a trade related to the order
Strat link order side	Numeric/Integer	Order linked to strategy instrument. Possible values: <ul style="list-style-type: none"> <li>• 1 (Buy)</li> <li>• 2 (Sell)</li> </ul>
Strat link symbol index	Numeric/Integer	Symbol index of strategy instrument
Strat link execution id	Numeric/Integer	Execution id of strategy order

## **RAW Files**

Content as detailed in the OPTIQ MDG Client Specification and OPTIQ MDG Connectivity documentation available on Euronext's website