

Document title

# **EURONEXT CASH AND DERIVATIVES MARKETS – OPTIQ FILES**

Document type or subject

OPTIQ FILES – INTERFACE SPECIFICATION

Version number

Version Number: 5.20.0

Date

14 Nov 2022

Number of pages

127

Author

Euronext IT Market Services

Related SBE Version

320

This publication is for information purposes only and is not a recommendation to engage in investment activities. This publication is provided “as is” without representation or warranty of any kind. Whilst all reasonable care has been taken to ensure the accuracy of the content, Euronext does not guarantee its accuracy or completeness. Euronext will not be held liable for any loss or damages of any nature ensuing from using, trusting or acting on information provided. No information set out or referred to in this publication shall form the basis of any contract. The creation of rights and obligations in respect of financial products that are traded on the exchanges operated by Euronext’s subsidiaries shall depend solely on the applicable rules of the market operator. All proprietary rights and interest in or connected with this publication shall vest in Euronext. No part of it may be redistributed or reproduced in any form without the prior written permission of Euronext.

Euronext refers to Euronext N.V. and its affiliates. Information regarding trademarks and intellectual property rights of Euronext is located at [www.euronext.com/terms-use](http://www.euronext.com/terms-use).

© 2022, Euronext N.V. - All rights reserved.

## PREFACE

### PURPOSE

The purpose of this document is to describe all the files required for Trading on Optiq platform.

### TARGET AUDIENCE

This document should be read by Euronext's clients developing tools for retrieving and processing Market Data files.

### SCOPE

The scope of this document is listed below (✓ In scope, ✗ Out of scope):

Optiq Segment	Segment Value	In/Out of Scope
<b>Euronext Cash Market</b>		
Equities <span>EQ</span>	1	✓
Funds <span>FND</span>	2	✓
Fixed Income <span>FXI</span>	3	✓
Warrants and Certificates <span>SP</span>	4	✓
Block <span>BLK</span>	14	✓
Forex <span>FOREX</span>	15	✓
Irish Bonds and Funds <span>IBF</span>	16	✓
<b>Euronext Derivatives Market</b>		
Commodity Derivatives <span>CMO</span>	8	✓
Index Derivatives <span>IDD</span>	11	✓
Equity Derivatives <span>EQD</span>	12	✓
<b>Euronext Indices</b>		
Indices <span>Indices</span>	9	✓
<b>Euronext Approved Publication Arrangement (APA) Facility</b>		
Trade Reporting and Publication <span>TRP</span>	10	✓
<b>Other Markets</b>		
Luxembourg Stock Exchange <span>BDL</span>	5	✓

---

## SUPPORT

Please find below the contact details:

- Operational Client Services Desk: [clientsupport@euronext.com](mailto:clientsupport@euronext.com)
- Belgium +32 2 620 0585
- France +33 1 8514 8585
- Ireland +353 1 617 4289
- Netherlands +31 20 721 9585
- Portugal +351 2 1060 8585
- UK +44 20 7660 8585

---

## WHAT'S NEW?

The following lists only the most recent modification made to this revision/version. For the Document History table, see the Appendix.

VERSION NO.	CHANGE DESCRIPTION
5.20.0	<p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"><li>■ In <a href="#">Field Description</a>:<ul style="list-style-type: none"><li>- Value added for field <a href="#">MIC</a>: 'ATFX' (ATFUND MTF)</li></ul></li></ul>

---

## ASSOCIATED DOCUMENTS

The following lists the associated documents, which either should be read in conjunction with this document or which provide other relevant information for the user:

- Euronext Cash and Derivatives Markets - Optiq OEG SBE Messages - Interface Specification
- Euronext Cash and Derivatives Markets - Optiq OEG FIX 5.0 Messages - Interface Specification
- Euronext Cash Markets – Optiq OEG MDG - Kinematics Specification
- Euronext Derivatives Markets – Optiq OEG MDG - Kinematics Specification
- Euronext Cash and Derivatives Markets – Optiq OEG TCS Error List – Technical Specification (.csv)
- Euronext Cash and Derivatives Markets - Optiq MDG Messages - Interface Specification
- Optiq Technical Note SBE
- Euronext Markets – Optiq OEG Connectivity Specifications
- Euronext Cash and Derivatives Markets - Common File Transfer System - User Guide

## CONTENTS

<b>1.</b>	<b>EURONEXT OPTIQ MARKET DATA GATEWAY SOLUTION.....</b>	<b>5</b>
1.1	Introduction .....	5
1.2	Access to Services.....	5
1.3	File Naming Convention.....	7
1.4	Server Availability .....	8
1.5	File Version availability.....	9
1.6	Future Use .....	9
<b>2.</b>	<b>FILE OVERVIEW .....</b>	<b>10</b>
2.1	Functional Format Fields.....	10
2.2	Technical Format Fields .....	11
2.3	Date convention.....	11
2.4	Time Convention .....	11
2.5	Feed Configuration .....	12
2.6	Derivatives parameters .....	14
2.7	Price, Quantity, Ratio and Amount Decimals .....	15
<b>3.</b>	<b>FILE DESCRIPTION .....</b>	<b>16</b>
3.1	SBE Template Files.....	16
3.2	CashStandingDataFile (9007) .....	16
3.3	CashTickSizeReferentialFile (9020).....	29
3.4	DerivativesStandingDataFile (9013) .....	30
3.5	DerivativesTickSizeFile (9021).....	39
3.6	OpenInterestFile (9014) .....	40
3.7	ReferenceSpreadsFile (9045) .....	41
3.8	PrevDayCapAndVolTradFile (9015).....	42
3.9	RepoSettlementPriceFile (9016).....	43
3.10	TimetableFile (9001).....	43
3.11	Authorized Price Fluctuation File (9008) .....	44
3.12	Euronext RLP Universe File .....	45
3.13	Members Family Instruments .....	45
3.14	Total Return Futures Conversion Parameters Files .....	46
3.14.1	Total Return Futures Conversion Parameters file SOD CSV .....	46
3.14.2	Total Return Futures Conversion Parameters file SOD XML .....	48
3.14.3	Total Return Futures Conversion Parameters file EOD CSV .....	49
3.14.4	Total Return Futures Conversion Parameters file EOD XML .....	50
<b>4.</b>	<b>FIELD DESCRIPTION .....</b>	<b>52</b>

# 1. EURONEXT OPTIQ MARKET DATA GATEWAY SOLUTION

## 1.1 INTRODUCTION

This document details the Referential Data Service for Euronext, to be used in conjunction with the Optiq MDG and OEG messages specifications.

The service provides full referential data for the Euronext markets, as well as feed configurations, key trading information and MDG and OEG SBE templates. Users of the Euronext market data feed should use the service to:

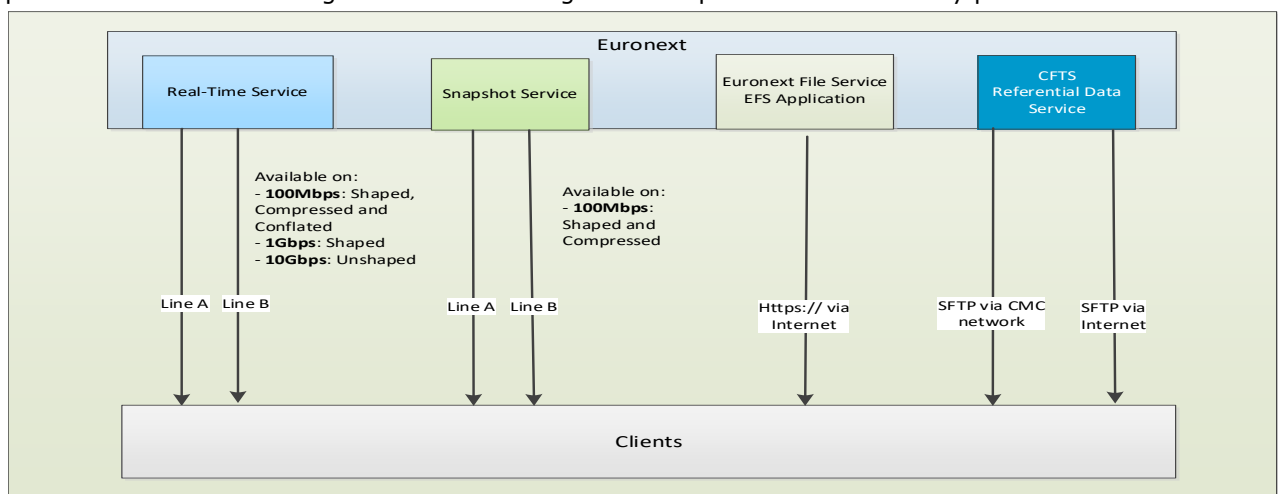
- ◆ Configure feed connections,
- ◆ Obtain the referential data, configuration and setup parameters, that are published on a daily basis.

The APA/ARM sections of this document comply with the UK DRSP regulatory framework governance.

## 1.2 ACCESS TO SERVICES

Access to Euronext File Services (EFS) in EUA and Production is only available through the Internet using the HTTPS protocol.

Common File Transfer System (CFTS) access for EUA is available through the Euronext Colocation/CMC private network and through the internet using the SFTP protocol with SSH key pair authentication.



Access to EFS and CFTS for EUA and Production environments will only be granted to customers that have at least one of the agreements in place with Euronext as defined in Optiq Euronext File Services User Guide and Euronext Common File Transfer User Guide.

Clients have read only access that allows them to download files, but not to upload or modify them.

The details of the HTTPS connectivity can be found in Euronext File Service User Guide. The Common File Transfer System User Guide provides the details of SFTP connectivity.

Below is the description of the folder structure that contains files provided on EFS for 5 rolling trading days. The Common File Transfer System User Guide provides the description of the CFTS folder structure and files contained within each folder.

Folder	Description
OptiqMDG	Root folder, which identifies that all the following folders and files are used for Optiq
└ Environment	Defines if this is in “Production”, “v-EUA” or “p-EUA”
└└ Current	For the current day file.
└ OptiqSegment	Defines the segment on Optiq
└└ Current	For the current day file.

Latest files are stored in the folder “Current” located either within the Environment or individual OptiqSegment folders.

Files available under the Environment folder are:

- ◆ CashTickSizeReferentialFile<sup>1</sup>
- ◆ Euronext RLP Universe<sup>2</sup>
- ◆ MBR\_FAMINSTR<sup>2</sup>

Files available in the individual OptiqSegment folder, as needed, are:

- ◆ SBE Templates (for OEG and MDG)
- ◆ CashStandingDataFile
- ◆ CashTickSizeReferentialFile
- ◆ AuthorizedPriceFluctuationFile
- ◆ DerivativesStandingDataFile
- ◆ DerivativesTickSizeFile
- ◆ OpenInterestFile
- ◆ ReferenceSpreadsFile
- ◆ PrevDayCapAndVolTradeFile
- ◆ TimetableFile
- ◆ RepoSettlementPriceFile
- ◆ TRF Conversion Parameters File

The files are needed / made available for individual segments as follows:

Files	Optiq Segment											
	EQ	FND	FXI	SP	EQD	IDD	CMO	BLK	Indices	IBF	Forex	TRP
SBETemplates (for MDG and OEG)	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	-	✓
CashStandingDataFile	✓	✓	✓	✓	-	-	-	✓	✓	-	✓	-
CashTickSizeReferentialFile	-	-	-	-	✓	✓	✓	-	-	-	-	-
AuthorizedPriceFluctuationFile	✓	✓	✓	✓	-	-	-	✓	-	-	-	-
DerivativesStandingDataFile	-	-	-	-	✓	✓	✓	-	-	-	-	-

<sup>1</sup> The CashTickSizeReferentialFile is currently provided under (1) Environment and (2) individual OptiqSegment folders for Derivatives

<sup>2</sup> Euronext RLP Universe and MBR\_FAMINSTR will be available through CFTS Referential Data Service only and are sourced from Euronext IDSCash database

Files	Optiq Segment											
	EQ	FND	FXI	SP	EQD	IDD	CMO	BLK	Indices	IBF	Forex	TRP
DerivativesTickSizeFile	-	-	-	-	✓	✓	✓	-	-	-	-	-
OpenInterestFile	-	-	-	-	✓	✓	✓	-	-	-	-	-
ReferenceSpreadsFile	-	-	-	-	✓	✓	✓	-	-	-	-	-
PrevDayCapAndVolTradeFile	✓	✓	✓	✓	-	-	-	✓	-	-	-	-
TimetableFile	✓	✓	✓	✓	✓	✓	✓	✓	-	-	-	-
RepoSettlementPriceFile	✓	-	-	-	-	-	-	-	-	-	-	-
TRF Conversion Parameters File	-	-	-	-	-	✓	-	-	-	-	-	-

### 1.3 FILE NAMING CONVENTION

The Optiq referential files are available on EFS and CFTS are populated from the same data sources. Files are provided in different Optiq segment types:

- Cross Optiq Segment Files, i.e. a single file generated for multiple Optiq Segments.
- Individual Optiq Segment specific files generated / provided for each individual Optiq Segment on a daily basis

As a result, the file naming convention varies according to the type of file.

#### ■ Cross Optiq Segment Files

These files are unique referential files, valid for all Optiq Segments. It is therefore not required to generate the same file for each Optiq Segment.

Cross Optiq Segment files have the following naming convention:

<OptiqGateway>\_<Environment>\_<FileName>\_<ALL>\_<Date>.xml

Where:

- OptiqGateway is 'OptiqMDG', for MDG files or 'OptiqOEG', for OEG files
- Environment and FileName are the same as defined in folder structure
- OptiqSegment is always 'ALL'
- Date is the trading date for which the file is provided - with format 'YYYYMMDD'

The files provided in this manner are:

- CashTickSizeReferentialFile
- Euronext RLP Universe<sup>2</sup>
- MBR\_FAMINSTR<sup>2</sup>

Example of the Cash Tick Size Referential File generated in Production on the 1st of June 2022:

OptiqMDG\_Production\_CashTickSizeReferentialFile\_ALL\_20220601.xml.

And it will be located in:

OptiqMDG

└ Production

└ Current

└ CashTickSizeReferentialFile

■ Files generated / provided for individual Optiq Segment

Files generated / provided for individual Optiq Segment on a daily basis have the following naming convention:

<OptiqGateway>\_<Environment>\_<FileName>\_<OptiqSegment>\_<Date>.xml

Where:

- OptiqGateway is 'OptiqMDG', for MDG files or 'OptiqOEG', for OEG files
- Environment and FileName are the same as defined in folder structure
- OptiqSegment is one of the values of the available segments available on EFS
- Date is the current trading date with format 'YYYYMMDD'

The files provided in this manner are:

- SBETemplates (for MDG and OEG)
- CashStandingDataFile
- CashTickSizeReferentialFile
- AuthorizedPriceFluctuationFile
- DerivativesStandingDataFile
- DerivativesTickSizeFile
- OpenInterestFile
- ReferenceSpreadsFile
- PrevDayCapAndVolTradeFile
- TimetableFile
- RepoSettlementPriceFile
- TRF Conversion Parameters File

Example of the Open Interest File generated in Production on 1<sup>st</sup> of June 2022, on the 'Commodities' Optiq Segment:

OptiqMDG\_Production\_OpenInterest\_Commodities\_20220601.xml

---

## 1.4 SERVER AVAILABILITY

The server is available 24 hours a day, seven days a week.



---

## 1.5 FILE VERSION AVAILABILITY

The OEG and MDG SBE Template files are Backward and Forward compatible. The latest supported versions for each Optiq segment are available on the server. For more information on Backward and Forward compatibility of SBE, please refer to the OEG and MDG specifications documents, as well as the technical notes on SBE compatibility and the chosen approach for individual migration / projects.

For all other file types, in case of a new version of the file, customers will have to migrate to the new version of the file on the go-live date. Only the latest version of the file, applicable for the environment, is provided for the current trading day.

---

## 1.6 FUTURE USE

In preparation for various functionalities expected to be implemented in the future on Optiq a number of fields were added and flagged "For Future Use".

Details of functionalities flagged in the specifications as for 'Future Use' are provided for information purposes only, and may change significantly until such time as the finalised specifications for the relevant service are communicated to clients.

The effective use of fields will not be technically supported until the announced date for implementation of these functionalities.

**Note:** Fields and Values for future in the files structures are represented in *italic and in grey*.

## 2. FILE OVERVIEW

The aim of this section is to describe the fields types used in the reference data files. For full details of file format, values and use, please review to the OEG and MDG specifications documents.

### 2.1 FUNCTIONAL FORMAT FIELDS

Functional Format	Description
Alphanumeric ID	String type identifying an element.
Amount	Signed numerical field representing an amount.
Bitmap	Array of bits, each bit specifying whether an optional value is present (set to "1") or not (set to "0") (in Little-Endian).
Boolean	Indicator having two possible values, either 'true - 1' or 'false - 0'. This value is set on the first bit of the byte (in Little-Endian).
Date	Date of an event.
Decimal Places	Number of decimals associated to a numerical field.
Enumerated	Information having a delimited set of possible values.
Epoch Time in Nanoseconds	UTC time in nanoseconds since 1970 January the 1st.
Integer Time in hhmmss	Time in an integer on 2 bytes expressed as hhmmss
Intraday Time in Seconds	UTC time in seconds since the beginning of the day.
Numerical	Generic numerical field.
Numerical ID	Numerical field identifying an element.
Price	Numerical field representing a price (either signed or not signed).
Quantity	Unsigned numerical field representing a quantity of elements (for example a number of shares).
Text	Text in UTF-8.
Timestamp	Time of an event.

## 2.2 TECHNICAL FORMAT FIELDS

The following technical types are used:

- All integers are numeric (signed/ unsigned specified in each field format description) using two's complement method.
- Binary data are in Intel byte order (Little-Endian).
- All "Alphanumeric ID" and "Text" fields are alphanumeric based on UTF-8.

Technical Format	Description
character	Alphanumeric field containing only 1 character
signed integer 64	8 bytes signed numerical field
unsigned integer 8	1 byte unsigned numerical field
unsigned integer 16	2 bytes unsigned numerical field
unsigned integer 32	4 bytes unsigned numerical field
unsigned integer 64	8 bytes unsigned numerical field
XML date	Date displayed in YYYYMMDD format
XML timeSec	Text formatted according to ISO 8601: hh:mm:ssZ where Z = UTC
XML timeNano	Text formatted according to ISO 8601: hh:mm:ss:mmmµµµnnnZ where "mmm" indicate the milliseconds "µµµ" indicate the microseconds "nnn" indicate the nanoseconds Z = UTC
XML text50	Alphanumeric field which length is 50 characters
Decimals	Numerical field with "." as a separator

## 2.3 DATE CONVENTION

Dates are defined in number of days since 1970 January the 1<sup>st</sup> (01/01/1970 is the day "0"). The file structure provides them in human readable format YYYYMMDD where

- "YYYY" is the year
- "MM" is the month
- "DD" is the day

## 2.4 TIME CONVENTION

In XML files, timestamps are provided in two (2) formats, based on ISO 8601: Time in seconds and time in nanoseconds.

- Times in seconds: hh:mm:ssZ

Where:

- hh is the hours
- mm the minutes
- ss the seconds
- Z stands for UTC time

- Times in nanoseconds: hh:mm:ss:mmmμμnnnZ

Where:

- hh is the hours
- mm the minutes
- ss the seconds
- mmm the milliseconds
- μμμ the microseconds
- nnn the nanoseconds
- Z stands for UTC time

## 2.5 FEED CONFIGURATION

The **CashStandingDataFile** (9007) and **DerivativesStandingDataFile** (9013) are provided on a daily basis per Optiq Segment. Every Instrument in the file has a repeating section called MDGSetOfChannels and this repeating section provides the *MDGSetOfChannelsID* and the *MDGSetOfChannelsName*. The ID is a unique number for the combination of Asset Class and Country Split.

MDGSetOfChannels					
	<a href="#">MDGSetOfChannelsID</a>	Identifier of an MDG Set Of Channels.	unsigned integer 16	2	From 0 to 65534
	<a href="#">MDGSetOfChannelsName</a>	Name of the MDG Set Of Channels.	string	100	(See field description)
/MDGSetOfChannels					

Most instruments have only one repeating section, but instruments belonging to the Equities Optiq Segment for instance can have more than one repeating section :

1. ID=5 – Equities France
2. ID=11 – Best of Book (Retail Matching Facility)

At the end of the Standing Data file, two connectivity configuration sections are provided: SetOfChannels and LogicalAccessConnectivity.

For more information on the section LogicalAccessConnectivity please refer to the *Euronext Cash and Derivatives Markets – Optiq OEG Connectivity Aruba Datacentre – Technical Specification* document.

SetOfChannels provides the full feed configuration details for the Optiq Segment are made available. For each SetOfChannels, the ChannelType is provided for Real-Time and Snapshot channels, together with the available ChannelID's and ChannelSpeed.

SetOfChannels					
	<a href="#">MDGSetOfChannelsID</a>	Identifier of an MDG Set Of Channels.	unsigned integer 16	2	From 0 to 65534
	<a href="#">MDGSetOfChannelsName</a>	Name of the MDG Set Of Channels.	string	100	(See field description)
Channels					

<a href="#">ChannelType</a>	Defines the channel.	string	4	(See field description)
<b>MulticastDataRealTime</b>				
<a href="#">ChannelID</a>	Identifies the channel.	unsigned integer 16	2	From 0 to 65534
<a href="#">ChannelSpeed</a>	Defines the Channel bandwidth.	string	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
<a href="#">PartitionID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2 <sup>16</sup> -2
<b>MulticastA</b>				
<a href="#">SourceIPRange</a>	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)
<a href="#">DRSourceIPRange</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
<a href="#">MulticastGroupIP</a>	Defines the IP number (IP v4).	string	15	(See field description)
<a href="#">PortNumber</a>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
<b>/MulticastA</b>				
<b>MulticastB</b>				
<a href="#">SourceIPRange</a>	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
<a href="#">DRSourceIPRange</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
<a href="#">MulticastGroupIP</a>	Defines the IP number (IP v4).	string	15	(See field description)
<a href="#">PortNumber</a>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
<b>/MulticastB</b>				
<b>/MulticastDataRealTime</b>				
<b>MulticastDataSnapshot</b>				
<a href="#">ChannelID</a>	Identifies the channel.	unsigned integer 16	2	From 0 to 65534
<a href="#">ChannelSpeed</a>	Defines the Channel bandwidth.	string	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel

<a href="#">PartitionID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2 <sup>16</sup> -2
<b>MulticastA</b>				
<a href="#">SourceIPRange</a>	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
<a href="#">DRSourceIPRange</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
<a href="#">MulticastGroupIP</a>	Defines the IP number (IP v4).	string	15	(See field description)
<a href="#">PortNumber</a>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
<b>/MulticastA</b>				
<b>MulticastB</b>				
<a href="#">SourceIPRange</a>	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)
<a href="#">DRSourceIPRange</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description) (See field description)
<a href="#">MulticastGroupIP</a>	Defines the IP number (IP v4).	string	15	(See field description) (See field description)
<a href="#">PortNumber</a>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
<b>/MulticastB</b>				
<b>/MulticastDataSnapshot</b>				
<b>/Channels</b>				
<b>/SetOfChannels</b>				

## 2.6 DERIVATIVES PARAMETERS

**DerivativesStandingDataFile** (9013) are provided on a daily basis per Optiq Segment. Every contract in the file comes with a set of trading parameters that are provided in a dedicated substructure.

The trading parameters are provided to clients as non-mandatory referential data than can be used to build finer trading algorithms across Exchange Market Mechanisms. The Derivatives parameters, for each contract, are provided as follows:

DerivativesParameters				0..254	Optional
<a href="#">EMM</a>	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
<a href="#">Param Name</a>	Name of a Contract parameter.	Enumerated	1	(See field description)	Optional
<a href="#">Param Value</a>	Value of a Contract Parameter.	Text	255		Optional

<a href="#">Param Type Of Expression</a>	Parameter Type Of Expression of Contract Parameter Name.	Enumerated	1	(See field description)	Optional
/DerivativesParameters					Optional

- The Param Name field is an enumerated field. Repeated for each parameter for each EMM. It identifies for each record the parameter provided. Details of the parameter (description, use, unit) are provided in the field description.
  - *Example (for EMM RFC): 4 - RFCMinimumQuantityForReactor: Quantity (Minimum quantity to submit for RFC as a reactor)*
- The Param Type of expression is an enumerated field that provides the technical format of the parameter being given its unit provided in the description
  - *Example (for EMM RFC, and Param Name 4 above): 3 – Absolute Value*  
Absolute Value indicates that the value is provided – based on its unit – according to Optiq standards. For this parameter, it is a Quantity, it will be thus expressed as a non-decimalized integer.
- The Param Type field is a string allowing to provide the value as indicated by the combination of the parameter unit provided in the parameter description and the Param type of expression. Providing the field in a string allows client to format it on their side according to their needs.

This method allows Euronext to provide all parameters, whether they are prices, quantities, bitmaps, Booleans, or time in a single framework, to be systematically interpreted by clients willing to use them in order to build flexible trading algorithms able to adapt to each contract through calibration via the Derivatives parameters.

## 2.7 PRICE, QUANTITY, RATIO AND AMOUNT DECIMALS

Some numerical fields are processed using another field for decimalization. Client have to link each field to the associated decimal field.

Name of the associated decimal field is always defined in the field description.

The decimalized value must be calculated according to the following formula:

$$\text{Decimalized Value} = \frac{\text{Integer}}{10^{\text{"Value in decimal field"}}}$$

For example, a Tick Factor Max Period as defined in the field description is to be calculated with Ratio / Multiplier Decimals. Value provided in the **DerivativesTickSizeFile** (9021) file is integer of 300, and the field *Ratio Decimals* is equal to 2.

$$\text{Using these values the calculation is} = \frac{300 (\text{Tick Factor Max Period field in the file})}{10^2 (\text{Value in the Ratio Decimals field})}$$

As a result, the value of Tick Factor Max Period has the value of **3** (meaning 3 months).

The same mechanism is used for:

- All quantities with "[Quantity Decimals](#)"
- All prices with "[Price Decimals](#)" (Where the field name is Price / Index Level Decimals)
- All amounts with "[Amount Decimals](#)"

---

## 3. FILE DESCRIPTION

---

### 3.1 SBE TEMPLATE FILES

SBE Template files aim to help decode SBE messages using an SBE decoder.

- Two (2) SBE Template files are available: one for OEG and one for MDG. These files are stored in each individual <OptiqSegment> folder.

SBE tools and documentation that can be used to generate (encode and decode) SBE messages are available on:

<https://github.com/real-logic/simple-binary-encoding> (refer to [SBE Disclaimer in appendix](#))

This file structure is defined by SBE protocol and contains:

- The list of all technical fields
- SBE Headers structure
- The list of all possible values for each Enumerated field
- The list of all possible values for each Bitmap field
- The structure of each message with the expected order of each fields

Clients must check the file every day to determine whether a new Schema Version is available.

Full and detailed message structures are specified in the **Euronext Cash and Derivatives Markets – Optiq MDG Message – Interface Specification**.

- File Availability: Available 24/7.
- Scope of contents: All Euronext segments and all SBE messages for Market Data and Order Entry. One file per Optiq Segment.

---

### 3.2 CASHSTANDINGDATAFILE (9007)

The **CashStandingDataFile** (9007) provides referential data for cash markets.

The file provides three structures per instrument breakdown, as per the following tree:

- CashStandingDataFile
  - StandingDataUnitary
    - Common Standing Data
    - MDGSetOfChannels
    - ETFDataFromMarketOfReference
  - FeedConfigurationFile
    - SetOfChannels
      - Channels
        - MulticastDataRealTime
          - MulticastA
          - MulticastB
        - MulticastDataSnapshot
          - MulticastA
          - MulticastB
  - LogicalAccessConnectivity
    - Partition

- Repeated sections in the tree structure are displayed with a green border below, including their header.
- XML Headers and Footers are displayed in a different colour than fields



- The first structure provides the standing data functionally needed for trading purpose.
  - All operational referential data broadcasted on the feed at start of day via Optiq MDG Standing Data 1007 message is also available in this section.
  - As an example, Timestamps on the feed are provided in number of ns since 1970 January the 1st. The file structure provides them in human readable format (YYYYMMDD).
- The second structure is dedicated to MD connectivity. It provides the physical addresses of channels on which data is disseminated for the given instrument, access to which depends on client authorization.
- The third structure provides connectivity information for all Cash Order Entry Gateways (OEG) of the concerned Optiq Segment and the associated Drop Copy (DC) gateways.
- File Availability: Available 24/7.
- Scope of contents: Cash instruments.  
Note: For Forex segment, fields are by default filled-in (as they are mandatory) but no snapshot is provided through MDG. Standing Data is only available via EFS.
- Intraday updates: This file will be updated overnight.

Field	Short Description	Format	Length	Values	Presence
CashStandingDataFile					
StandingDataUnitary					
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2 <sup>32-2</sup>	Mandatory
<a href="#">Optiq Segment</a>	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16-2</sup>	Mandatory
<a href="#">Full Instrument Name</a>	Full Instrument Name.	Text	102	(See field description)	Optional
<a href="#">Instrument Name</a>	Instrument Name	Text	18	(See field description)	Mandatory
<a href="#">Instrument Trading Code</a>	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.	Alphanumerical ID	15	(See field description)	Optional
<a href="#">Instrument Group Code</a>	Instrument Group / Class Identifier.	Alphanumerical ID	2	(See field description)	Mandatory
<a href="#">ISIN Code</a>	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory
<a href="#">Price Decimals</a>	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Mandatory
<a href="#">Quantity Decimals</a>	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Amount Decimals</a>	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Ratio Decimals</a>	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Mandatory
<a href="#">CFI</a>	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Mandatory
<a href="#">Instrument Event Date</a>	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	2	0..2 <sup>16-2</sup>	Mandatory
<a href="#">Strike Price</a>	The strike price of an option/warrant is the specified price at which the underlying can be bought (in the case of a call/right to buy) or sold (in case of a put/right to sell) by the holder (buyer) of the option/warrant contract, at the moment he exercises his right against a writer (seller) of the option/warrant.	Price	8	From -2 <sup>63+1</sup> to 2 <sup>63-1</sup>	Optional
<a href="#">Dark Eligibility</a>	Indicates the Eligibility to dark. 0 is not eligible, 1 is eligible.	Boolean	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Dark LIS Threshold</a>	Defines the minimum amount of an order to benefit from the LIS (Large In Scale) pre-transparency waiver (to be calculated with the Amount Decimals).	Amount	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Dark Min Quantity</a>	Defines the minimum quantity required for an order to be filled in the Dark liquidity. 0 indicates that no minimum amount is required.	Quantity	4	0..2 <sup>32-2</sup>	Optional
<a href="#">Date Of Last Trade</a>	Date of the Last Price for the Instrument	Date	2	0..2 <sup>16-2</sup>	Optional
<a href="#">Depository List</a>	Identifies the possible main depository organizations (maximum four) for shares or fixed income.	Text	20	(See field description)	Optional
<a href="#">Main Depository</a>	Identifies the default (or main) depository organization of the instrument (between the possible 4 depositories registered) used by priority for the settlement (for example: multi-listed instruments which have several depositories).	Alphanumerical ID	5	(See field description)	Optional
<a href="#">First Settlement Date</a>	Represents the first possible settlement date for a given instrument.	Date	2	0..2 <sup>16-2</sup>	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Guarantee Indicator</a>	Indicates if the trade is guaranteed or not (for clearing purpose)	Enumerated	1	0 This instrument is not guaranteed 1 This instrument is guaranteed 2 This instrument is not clearable 8 This instrument is part of Cleared Borrowing and Lending Service (CBLM) and is guaranteed	Optional
<a href="#">ICB</a>	Not relevant	Alphanumerical ID	16	(See field description)	Optional
<a href="#">Issuing Country</a>	Issuing country.	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Last Adjusted Closing Price</a>	Last traded price of the previous trading day after application of the adjustment coefficient (to be calculated with the Price/Index Level Decimals).	Price	8	From $-2^{63}+1$ to $2^{63}-1$	Optional
<a href="#">Lot Size</a>	Not Used	Quantity	8	Not Used	Optional
<a href="#">Maturity Date</a>	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Optional
<a href="#">Maximum Decimals In Quantity</a>	Maximum Decimals In Quantity was introduced for Euronext Fund Services Paris and indicates the maximum of relevant decimal number for trading.	Numerical	1	$0..2^{8-2}$	Optional
<a href="#">MIC</a>	Identifies the market to which an instrument belongs by its MIC (Market Identification Code), segment MIC according to ISO 10383.	Alphanumerical ID	4	(See field description)	Mandatory
<a href="#">MIC List</a>	Identifies the Euronext markets on which an instrument is listed by its MIC (Market Identification Code).	Alphanumerical ID	20	(See field description)	Optional
<a href="#">Country Of Exchange</a>	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Mnemonic</a>	Mnemonic code of the instrument. This field is not populated for every instrument.	Alphanumerical ID	5	(See field description)	Optional
<a href="#">Underlying MIC</a>	Identifies the market to which an instrument' underlying belongs by its MIC (Market Identification Code), according to ISO 10383. Refer to MIC field to have all the authorized values.	Alphanumerical ID	4	(See field description)	Optional
<a href="#">Underlying ISIN Code</a>	Underlying ISIN.	Alphanumerical ID	12	(See field description)	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Trading Currency</a>	Code of the currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Currency Coefficient</a>	When an actual price is displayed in a different 'price expression' than the official instrument trading currency, the Currency Coefficient represents the ratio 'price expression' divided by 'official currency' (To be calculated with Ratio / Multiplier Decimals).	Numerical ID	4	0..2 <sup>32-2</sup>	Optional
<a href="#">Trading Currency Indicator</a>	Indicates whether the 'price expression' is in the Currency or in a ratio of this Currency. Use Currency Coefficient field to identify the ratio to apply.	Enumerated	1	0 Change rate not applied to the traded price 1 Change rate applied to the traded price	Optional
<a href="#">Strike Currency Indicator</a>	Indicates whether the 'price expression' is in the Currency or in a ratio of this Currency. Use Currency Coefficient field to identify the ratio to apply.	Enumerated	1	0 Change rate not applied to the strike price 1 Change rate applied to the strike price	Optional
<a href="#">Number Instrument Circulating</a>	For stocks: this is the total number of shares issued by the company. For Fix Income: this is the number of Fix Income still to be repaid.	Quantity	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Par Value</a>	Par Value (also called Nominal value) for Instrument. For Fixed Income it represents the par amount to be repaid at maturity (not including interest revenue) (to be calculated with the Amount Decimals).	Amount	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Quantity Notation</a>	Indication of the type of measurement (e.g. number of units, nominal, monetary value, etc.) in which the transaction is expressed.	Text	3	(See field description)	Optional
<i>Inst Unit Exp</i>	<i>Not Used</i>	<i>Text</i>	<i>3</i>	<i>Not Used</i>	<i>Optional</i>
<a href="#">Settlement Delay</a>	Gives the number of trading days that represents the period between the trade date and the settlement date (delivery and payment) for an instrument to be cleared and settled.	Alphanumerical ID	2	(See field description)	Optional
<a href="#">Strike Currency</a>	Code of the strike currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Tax Code</a>	Tax deduction code to which the instrument belongs.	Enumerated	1	0 Not eligible to PEA 3 Eligible to PEA 9 Not Applicable	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Type Of Corporate Event</a>	Indicates the last type of corporate event that has occurred on an instrument, such as detachment of rights, or of coupons. The data item is automatically calculated by the adjustment application but in case of problem or error, the data item value could be modified manually, particularly for purging the order book in case of absence of corporate event.	Alphanumerical ID	2	(See field description)	Optional
<a href="#">Type Of Market Admission</a>	Indicates the type of market to which an instrument has been listed.	Enumerated	1	(See field description)	Optional
<a href="#">Repo Indicator</a>	Indicates whether the instrument listed underlies any loan contracts, meaning it has been admitted to the Deferred Settlement system and/or to the lending market.	Enumerated	1	(See field description)	Optional
<a href="#">Issue Price</a>	Issuing price of the instrument	Price	8	From $-2^{63}+1$ to $2^{63}-1$	Optional
<a href="#">Nominal Currency</a>	Code of the nominal currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Issue Price Decimals</a>	Indicates the number of decimals for Issue Price related to this Symbol Index	Decimal Places	1	$0..2^{8-2}$	Optional
<a href="#">Strike Price Decimals</a>	Indicates the number of decimals for Strike Price related to this Symbol Index	Decimal Places	1	$0..2^{8-2}$	Optional
<a href="#">Liquid Instrument Indicator</a>	Indicates whether the instrument is liquid or not, as defined per MiFID II. (0 = Illiquid ; 1 = Liquid)	Boolean	1	$0..2^{8-2}$	Optional
<a href="#">Market Of Reference MIC</a>	Indicates the instrument Exchange of Reference by its MIC (Market Identification Code according to ISO 10383) (For Future Use).	Alphanumerical ID	4	(See field description)	Optional
<a href="#">ICB Code</a>	<i>Not relevant.</i>	<i>Alphanumerical ID</i>	<i>8</i>	<i>(See field description)</i>	<i>Optional</i>
<a href="#">Threshold LIS Post Trade 60mn</a>	Defines the amount of an order to benefit from the LIS Trade Deferred publication to 60 min (to be calculated with the Amount Decimals).	Amount	8	$0..2^{64-2}$	Optional
<a href="#">Threshold LIS Post Trade 120mn</a>	Defines the amount of an order to benefit from the LIS Trade Deferred publication to 120 min (to be calculated with the Amount Decimals).	Amount	8	$0..2^{64-2}$	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Threshold LIS Post Trade EOD</a>	Defines the amount of an order to benefit from the LIS Trade Deferred publication to EOD (to be calculated with the Amount Decimals).	Amount	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Long Mnemonic</a>	Mnemonic code of the instrument. This field is not populated for every instrument.	Alphanumeric ID	6	(See field description)	Optional
<a href="#">Max Order Amount Call</a>	Maximum order amount allowed during a call phase, adjusted by the Pool Factor.	Amount	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Max Order Amount Continuous</a>	Maximum order amount allowed during a continuous phase, adjusted by the Pool Factor.	Amount	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Max Order Quantity Call</a>	Maximum order quantity allowed during a call phase, adjusted by the Pool Factor	Quantity	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Max Order Quantity Continuous</a>	Maximum order quantity allowed during a continuous phase, adjusted by the Pool Factor	Quantity	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Pool Factor</a>	Allows to calculate how much of the original loans have yet to be repaid.	Numerical ID	8	0..2 <sup>32-2</sup>	Optional
<a href="#">Asset Class</a>	Defines the Asset Class for a group of products.	Enumerated	3	(See field description)	Optional
<a href="#">Instrument Category</a>	Indicates to which category the instrument belongs.	Enumerated	1	(See field description)	Optional
<a href="#">Instrument Type</a>	Instrument Type.	Enumerated	4	(See field description)	Optional
<a href="#">Closing Price Type</a>	Closing Price Type. Indicates the type of closing Price configured for the instrument. If none, then Last Adjusted Closing Price is used.	Enumerated	1	1 Last Traded Price (LTP) 2 Volume Weighted Average Price (VWAP) 3 Volume Weighted Average Price (VWAP X Trades) 4 Closing Uncrossing Price – VWAP 5 Closing Uncrossing Price – BBO 6 VWAP – BBO 7 Not Applicable 8 VWAP - Closing Price of Reference Market 9 Last Adjusted Closing Price (LACP)	Mandatory
<a href="#">VWAP Period</a>	Indicates the number of seconds that should be considered to select the trades which will be used to compute the closing price for a given instrument, when the closing price type is VWAP.	Time	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Official Segment</a>	Official market segment.	Text	70	(See field description)	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Settlement System</a>	Indicates the System where the instrument is settled	Enumerated	2	60 Target 2 Securities 51 Euroclear/Clearstream Lux Null value: 2^8-1	Optional
<a href="#">Pattern Type</a>	Indicates whether the instrument is tradeable in continuous mode (Continuous), in auction mode (Fixing) or it is not tradable (Not tradable).	Enumerated	1	0 Fixing 1 Continuous 2 Not tradable Null value: 2^8-1	Optional
<a href="#">Professional Trading</a>	Indicates if the instrument can be traded by Professional Member only (1) or not (0).	Boolean	1	(See field description)	Optional
<a href="#">Exercise Style</a>	Type of exercise of an instrument.	Enumerated	1	(See field description)	Optional
<a href="#">Underlying Mnemonic</a>	Mnemonic code of the Instrument' underlying. This field is not populated for every instrument.	Alphanumerical ID	6	(See field description)	Optional
<a href="#">Underlying Name</a>	Indicates the full name of the instrument's underlying.	Text	102	(See field description)	Optional
<a href="#">Underlying Type</a>	Defines the instrument type of the underlying.	Enumerated	1	(See field description)	Optional
<a href="#">Settlement Currency</a>	Code of the settlement currency (ISO 4217-3A)	Alphanumerical ID	3	(See field description)	Optional
<a href="#">Tech Leaders segment indicator</a>	It indicates if the instrument belongs to the Euronext Tech Leader segment	Boolean	1	(See field description)	Optional
<a href="#">Settlement Date</a>	Settlement Date is the actual day on which transfer of cash or assets is completed and is usually a few days after the trade was done. The number of days between the Trade Date and the Settlement Date depends on the security and the convention in the market on which it was traded.	Date	2	(See field description)	Optional
<a href="#">End Validity Date</a>	For guaranteed instrument , the End Validity Date is the date when the Clearing House triggers the buy-in procedure because of the seller delivery failure. For non-guaranteed instrument, the End Validity Date corresponds to the date when the trade is cancelled by the CSD and cash settlement/compensation is performed according to Euronext Securities rules.	Date	2	(See field description)	Optional

Field	Short Description	Format	Length	Values	Presence
<a href="#">Purge Book Type</a>	Indicates whether Good Till Day and Good Till Cancel orders have been deleted, specifying in such scenario whether on both sides, only in buy or sell side	Enumerated	1	1 No Purge 2 Purge Both Sides 3 Purge Only Buy Side 4 Purge Only Sell Side  Null value: 2^8-1	Optional
<a href="#">Operation Start Date</a>	The first day of an Issuing or Tender Offer operation.	Date	2	Format YYYYMMDD	Optional
<a href="#">Operation End Date</a>	The last day of an Issuing or Tender Offer operation.	Date	2	Format YYYYMMDD	Optional
<a href="#">Max Nbr Securities Offered Or Tendered</a>	Total quantity of securities offered (for Issuing) or tendered (for Tender Offer) in the operation.	Quantity	8	0..2^64-2	Optional
EMMPattern					
<a href="#">EMM</a>	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory
<a href="#">Pattern ID</a>	Numerical Pattern identifier available as a characteristic of an instrument in Standing Data file and message, and used in the MDG timetable message. Cash Markets only.	Numerical ID	2	0..2^16-2	Optional
<a href="#">Tick Size Index ID</a>	ID of the tick size table available in the Tick Table file.	Numerical ID	2	0..2^16-2	Optional
<a href="#">Market Model</a>	Market Model identifier.	Enumerated	1	(See field description)	Optional
<a href="#">Lot Size</a>	For Cash and Derivatives, it defines a multiple of the tradable quantity.	Quantity	8	0..2^64-2	Optional
<a href="#">Inst Unit Exp</a>	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional
<a href="#">Bps Low Collar</a>	Indicates the low collar applied on the NAV order book of ETF MTF. It is derived from the redemption fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).	Price	8	From -2^63+1 to 2^63-1	Mandatory
<a href="#">Bps High Collar</a>	Indicates the High collar applied on the NAV order book of ETF MTF. It is derived from the creation fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).	Price	8	From -2^63+1 to 2^63-1	Mandatory
<a href="#">Block Price Control ID</a>	ID of the Block Price Table.	Numerical ID	2	(See field description)	Optional



Field	Short Description	Format	Length	Values	Presence
<a href="#">Declaration Duration</a>	Declaration Duration (in minutes).	Time	8	(See field description)	Optional
<a href="#">Eligible For Margin</a>	Indicates if the instrument is eligible for margin or not.	Enumerated	1	0 No 1 Yes	Optional
<a href="#">Anonymous</a>	Indicates if the Market Data notifications on the instrument are anonymous or not. (0: Non Anonymous – Member Firm ID published; 1: Anonymous – Member Firm ID not published).	Boolean	1	0..2^8-2	Optional
<a href="#">Dynamic APF Table ID</a>	ID of the Allowed Price Fluctuation table used for the Dynamic Collar	Numerical ID	2	0..2^16-2	Optional
<a href="#">Static APF Table ID</a>	ID of the Allowed Price Fluctuation table used for the Static Collar	Numerical ID	2	0..2^16-2	Optional
<a href="#">Order Price Control APF Table ID</a>	ID of the Allowed Price Fluctuation table used for Order Price Control Collar	Numerical ID	2	0..2^16-2	Optional
/EMMPattern					
MDGSetOfChannels					
<a href="#">MDG Set Of Channels ID</a>	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
<a href="#">MDG Set Of Channels Name</a>	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
/MDGSetOfChannels					
ETFDataFromMarketOfReference					
<a href="#">Six Months ADV Exchange Of Ref</a>	Indicates the 6 months average daily volume (number of shares) traded on the exchange of reference (to be calculated with Quantity Decimals).	Quantity	8	0..2^64-2	Mandatory
<a href="#">AUM</a>	Stands for Asset Under Management. Indicates the fund's total market value (to be calculated with the Amount Decimals).	Amount	8	0..2^64-2	Mandatory
<a href="#">BIC Main Depository</a>	Identifies the BIC of the default depository organization.	Alphanumerical ID	11	(See field description)	Mandatory
<a href="#">Cut Off Time</a>	Indicates the point reached in the day from which the order will not be processed for the current business day. Time in an integer on 4 bytes expressed as hhmmss	Integer Time in hhmmss	4	0..2^32-2	Mandatory
<a href="#">Date Next Tradable NAV</a>	Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	0..2^32-2	Mandatory
<a href="#">Publication Date Next Tradable NAV</a>	Publication Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	0..2^32-2	Mandatory

Field	Short Description	Format	Length	Values	Presence
<a href="#">Dividend Frequency</a>	Indicates how often a dividend is paid by an individual instrument.	Enumerated	1	1 Capitalization 2 Monthly 3 Yearly	Mandatory
<a href="#">MIC Exchange Of Reference</a>	Indicates the instrument's Exchange of Reference by its MIC (Market Identification Code according to ISO 10383).	Alphanumerical ID	4	(See field description)	Mandatory
<a href="#">Name Exchange Of Reference</a>	Indicates the instrument's Exchange of Reference by its Name.	Text	50	(See field description)	Mandatory
<a href="#">Exposition Type</a>	Indicates the ETF replication method.	Enumerated	1	1 Physical 2 Synthetic 3 Sampling	Mandatory
<a href="#">ICSD</a>	Indicates if the settlement can be processed through an International CSD (1) or not (0).	Boolean	1	0..2^8-2	Mandatory
<a href="#">Index Leverage</a>	Indicates the multiplier coefficient of an leveraged fund. (To be calculated with RatioDecimal)	Numerical	4	0..2^32-2	Mandatory
<a href="#">Issuer Name</a>	Indicates the name of the Legal Issuing Entity.	Text	80	(See field description)	Mandatory
<a href="#">LEI Code</a>	LEI (Legal Entity Identifier) Code	Alphanumerical ID	20	(See field description)	Mandatory
<a href="#">Listing Date</a>	Indicates the listing date of the fund on the Exchange of Reference. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	0..2^32-2	Mandatory
<a href="#">NAV Currency</a>	Code of the NAV currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Mandatory
<a href="#">Previous NAV</a>	Indicates the previous official Net Asset Value (to be calculated with the Price/Index Level Decimals).	Price	8	From -2^63+1 to 2^63-1	Mandatory
<a href="#">Reuters RIC Code</a>	Indicates the Reuters RIC Code.	Alphanumerical ID	24	(See field description)	Mandatory
<a href="#">Total Expense Ratio</a>	Total Expense Ratio (TER): total costs associated with managing and operating a fund.	Numerical	4	0..2^32-2	Mandatory
<a href="#">Bloomberg Ticker Code</a>	Indicates the Bloomberg Ticker Code.	Alphanumerical ID	13	(See field description)	Mandatory
<a href="#">NAV Publication Time</a>	Indicates the official NAV publication time. Time in an integer on 4 bytes expressed as hhmmss	Integer Time in hhmmss	4	0..2^32-2	Mandatory
<a href="#">UMTF</a>	Indicates the instrument code based on 'Uniform MTF' symbology.	Alphanumerical ID	6	(See field description)	Mandatory
<a href="#">Underlying Name</a>	Indicates the full name of the ETF underlying.	Text	102	(See field description)	Mandatory
<a href="#">Underlying Return Type</a>	Indicates the dividend treatment applied.	Enumerated	1	1 Net Total Return 2 Price Return 3 Total Return	Mandatory

Field	Short Description	Format	Length	Values	Presence
<a href="#">Underlying Segmentation</a>	Indicates the underlying asset segmentation.	Enumerated	1	(See field description)	Mandatory
<a href="#">Bps Low Collar</a>	Indicates the low collar applied on the NAV order book of ETF MTF. It is derived from the redemption fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).	Price	8	From $-2^{63}+1$ to $2^{63}-1$	Mandatory
<a href="#">Bps High Collar</a>	Indicates the High collar applied on the NAV order book of ETF MTF. It is derived from the creation fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).	Price	8	From $-2^{63}+1$ to $2^{63}-1$	Mandatory
/ETFDataFromMarketOfReference					
/StandingDataUnitary					
SetOfChannels					
<a href="#">MDG Set Of Channels ID</a>	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
<a href="#">MDG Set Of Channels Name</a>	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
Channels				1..254	Mandatory
<a href="#">Channel Type</a>	Defines the channel.	Enumerated	4	(See field description)	Mandatory
MulticastDataRealTime					
<a href="#">Channel ID</a>	Identifies the channel.	Numerical	2	$0..2^{16}-2$	Mandatory
<a href="#">Channel Speed</a>	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	$0..2^{16}-2$	Mandatory
MulticastA					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	$0..2^{16}-2$	Mandatory
/MulticastA					
MulticastB					

Field	Short Description	Format	Length	Values	Presence
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastB					
/MulticastDataRealTime					
MulticastDataSnapshot					
<a href="#">Channel ID</a>	Identifies the channel.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
<a href="#">Channel Speed</a>	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
MulticastA					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastA					
MulticastB					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastB					
/MulticastDataSnapshot					
/Channels					
/SetOfChannels					
LogicalAccessConnectivity					
Partition					
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">IP Address Primary</a>	IP Address of the Primary and Secondary (backup) access to the gateway. Provided for all environments (IP v4).	Text	15	Valid IP v4 address	Mandatory
<a href="#">IP Address DR</a>	IP Address of the Disaster Recovery access to the gateway. Populated only for the Disaster Recovery environment, in the file generated for the Production environment. Blank for all other environments (IP v4).	Text	15	Valid IP v4 address	Optional
<a href="#">Partition Type</a>	Indicates the type of Partition, either Order Entry or Drop Copy. Use of Order Entry and Drop Copy gateways require separate and individual setup of the Logical access to each service.	Enumerated	2	OE Order Entry DC Drop Copy	Mandatory
/Partition					
/LogicalAccessConnectivity					
/CashStandingDataFile					

### 3.3 CASHTICKSIZEREFERENTIALFILE (9020)

- The Ticksize file contains different tables defining the variable tick sizes used for trading activity. A tick size table is composed of an index (identifying a table instance) with a list of price ranges that have corresponding tick sizes.
- Fixed tick sizes are also included in the tick size file, they correspond to indexes for which only one entry range [0,MaxValue[ is defined.
- Point of attention: certain TCS products do not have tick sizes (and this is the expected behaviour). Tick sizes depend of the EMM and certain EMMs do not support tick sizes.
- File availability: This file is available at the start of day and is needed by the Customers for the trading day. Customers must be able to download and process this file on a daily basis.
- Scope of contents: The file scope includes a tick size table for Cash markets, and the variable (price range-dependent) ticks and fixed price ticks.
- Intraday updates: No intraday update will be performed on the Tick Size table. Should the need arise, updates will be done in the referential tool and will be applied on the following business day (i.e. D+1). Meaning, the file will only be updated on a daily basis.

The file provides three structures per instrument breakdown, as per the following:

- CashTickSizes
  - Tick Size Index ID
  - Cash Tick Size

Field	Short Description	Format	Len	Values	Presence
CashTickSizes					

Field	Short Description	Format	Len	Values	Presence
<a href="#">Tick Size Index ID</a>	ID of the tick size table available in the Tick Table file.	Numerical ID	2	0..2^16-2	Mandatory
CashTickSize					
<a href="#">Minimum Price</a>	Minimum Price of the order.	Price	8	(See field description)	Mandatory
<a href="#">Tick Size</a>	Tick Size applied in the price range	Price	8	(See field description)	Mandatory
/CashTickSize					
/CashTickSizes					

### 3.4 DERIVATIVESSTANDINGDATAFILE (9013)

The **DerivativesStandingDataFile** (9013) provides all referential data for derivatives markets.

On the derivatives market, three (3) different messages will broadcast standing data on the feed: Contract Standing Data, Outright Standing Data and Strategies Standing Data.

This file provides the following structure breakdown as per the following:

- DerivativesStandingDataFile
    - ContractStandingDataUnitary
      - ContractEMMProperties
      - Derivatives Parameters Rep
      - OutrightStandingDataUnitary
        - Common Outright Standing Data
        - OutrightStandingDataRep
      - StrategyStandingDataUnitary
        - StrategyStandingDataRep
      - MDGSetOfChannels
    - FeedConfigurationFile
      - SetOfChannels
        - Channels
          - MulticastDataRealTime
            - MulticastA
            - MulticastB
          - MulticastDataSnapshot
            - MulticastA
            - MulticastB
    - LogicalAccessConnectivity
      - Partition
- On a contract-based breakdown, data is provided with a file with one nested structure. Following that, at a contract level, two sections are added to deal respectively with MD connectivity and in the OE connectivity.
  - File Availability: Available 24/7.
  - Scope of contents: Derivative instruments.
  - Intraday updates: This file will be updated overnight.

Note on values in the field Dynamic Collar Logic for Derivatives markets. Values have the following meaning:

- Dynamic Collar Logic "0" (Not Active): Trade Price Validation is not activated.
- Dynamic Collar Logic "3" (Reservation with Acceptation): Indicates that Trade Price Validation is activated.

- The fields Collar Max Unhalt Nb and Collar Unhalt Delay provide the parameters for management of Trade Price Validation when it is activated.
- Value "2" (No Halt with Reject) - is not currently in use.

Field	Short Description	Format	Len	Values	Presence
ContractStandingDataUnitary				1..254	Mandatory
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2 <sup>32-2</sup>	Mandatory
<a href="#">Optiq Segment</a>	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16-2</sup>	Mandatory
<a href="#">Contract Event Date</a>	Date of the last contract characteristics modification(s) except for some exceptions.	Date	2	0..2 <sup>16-2</sup>	Optional
<a href="#">Exchange Code</a>	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory
<a href="#">Exer Style</a>	Type of exercise of a derivatives instrument	Enumerated	1	0 European 1 American 2 Asian 3 Bermudan 4 Other	Optional
<a href="#">Contract Name</a>	Contract Name	Text	60		Mandatory
<a href="#">Contract Type</a>	Generic Contract Type.	Enumerated	1	F Future O Option U Underlying	Optional
<a href="#">Underlying Type</a>	Defines the instrument type of the underlying.	Enumerated	1	C Commodity F Future I Index S Stock X Exchange Rate	Mandatory
<a href="#">Price Decimals</a>	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Quantity Decimals</a>	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Amount Decimals</a>	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Ratio Decimals</a>	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	0..2 <sup>8-2</sup>	Optional
<a href="#">Main Depository</a>	Identifies the default (or main) depository organization of the instrument (between the possible 4 depositories registered) used by priority for the settlement (for example: multi-listed instruments which have several depositories).	Alphanumeric ID	5	(See field description)	Optional

Field	Short Description	Format	Len	Values	Presence
<a href="#">MIC</a>	Identifies the market to which an instrument belongs by its MIC (Market Identification Code), segment MIC according to ISO 10383.	Alphanumeric ID	4	(See field description)	Mandatory
<a href="#">Country Of Exchange</a>	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumeric ID	3	(See field description)	Mandatory
<a href="#">Product Code</a>	Physical alphanumeric product code.	Alphanumeric ID	4	(See field description)	Mandatory
<a href="#">Underlying MIC</a>	Identifies the market to which an instrument' underlying belongs by its MIC (Market Identification Code), according to ISO 10383. Refer to MIC field to have all the authorized values.	Alphanumeric ID	4	(See field description)	Optional
<a href="#">Underlying ISIN Code</a>	Underlying ISIN.	Alphanumeric ID	12	(See field description)	Optional
<a href="#">Underlying Expiry</a>	Expiry Date of the underlying (in number of days since the 1st of January 1970).	Date	4	0..2^32-2	Optional
<a href="#">Order Type Rules</a>	Order types supported by the matching engine.	Bitmap	2	(See field description)	Mandatory
<a href="#">Settlement Method</a>	Settlement method	Alphanumeric ID	1	(See field description)	Optional
<a href="#">Trading Currency</a>	Code of the currency (ISO 4217-3A).	Alphanumeric ID	3	(See field description)	Mandatory
<a href="#">Strike Price Decimals Ratio</a>	Value used , only for the AMR code, to determine the number of decimals present in the Option contract strike price, as the strike price is disseminated in format of an integer.	Numerical	1	0..2^8-2	Optional
<a href="#">MM Protections</a>	Indicates allowed MM Protection type on the contract.(0: Disabled ; 1: Enabled)	Bitmap	1	0 Delta 1 Volume	Mandatory
<a href="#">Contract Trading Type</a>	Contract Trading Type.	Enumerated	1	1 Traded as an outright 2 Not traded, but listed in contract data. Traders may subscribe to it 3 Traded as a simple inter-commodity spread 4 Traded as an inter-commodity spread	Mandatory
<a href="#">Inst Unit Exp</a>	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional
<a href="#">Underlying Subtype</a>	Defined the underlying sub-type associated to the underlying type.	Enumerated	1	(See field description)	Optional
<a href="#">Mother Stock ISIN</a>	ISIN Code of the index underlying of the TRF contract.	Text	12	(See field description)	Optional



Field	Short Description	Format	Len	Values	Presence
<a href="#">Settlement Tick Size</a>	Default Tick Size value applicable for all Settlement Prices. It's calculated using the PriceDecimals.	Price	8	0..2 <sup>64-2</sup>	Optional
<a href="#">EDSP Tick Size</a>	Specific Tick Size value applicable for EDSP. It's calculated using the PriceDecimals.	Price	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Underlying Symbol Index</a>	Identifies the Symbol Index of the underlying of the instrument.	Numerical ID	4	0..2 <sup>32-2</sup>	Optional
<a href="#">Trading Policy</a>	Trading Policy enabling to allocate a given incoming volume to orders.	Enumerated	1	1 Price Explicit Time 2 Price Pro Rata	Optional
<a href="#">Reference Spread Table ID</a>	ID of the Reference Spread Table.	Numerical ID	2	0..2 <sup>16-2</sup>	Optional
<a href="#">Derivatives Market Model</a>	Type of synthetic quote applied to the contract	Enumerated	1	0 No Synthetic Quote 1 Spontaneous Implied Matching 2 Event Driven Implied Matching	Optional
<a href="#">Trading Unit</a>	Amount of underlying instrument per unit of a derivative contract (to be calculated with the Quantity Decimals). Due to corporate actions, the value may be different between value provided within this field in Contract Standing Data and Outright Standing Data. Value in Outright Standing Data reflects the adjustment due to the corporate action and should be used for that Outright instrument.	Quantity	8	0..2 <sup>64-2</sup>	Optional
<a href="#">Reference Price Origin in Opening Call</a>	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
<a href="#">Reference Price Origin in Continuous</a>	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
<a href="#">Reference Price Origin in Trading Interruption</a>	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
<a href="#">Collar Expansion Factor</a>	Numerical coefficient applied in collar calculation.	Numerical ID	1	0..2 <sup>8-2</sup>	Optional
<a href="#">MIFID II Liquid Flag</a>	Defines if a contract is to be considered as liquid under MIFID II Regulation.	Boolean	1	From 0 to 2 <sup>8-2</sup>	Mandatory
<a href="#">Pricing Algorithm</a>	This field provides the defined pricing algorithm value for a given contract. It is used to identify Total Return Future (TRF) contracts and Market On Close (MOC) contracts. For other contract types the value is set to Standard.	Enumerated	1	0 = Standard 1 = Total Return Future 2 = Market On Close	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">PRA ID</a>	Identifier of the Pricer Reporting Agency for a Cash Settled contract	Numerical	2	0..2^32-2	Optional
ContractEMMProperties					Optional
<a href="#">EMM</a>	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
<a href="#">Tick Size Index ID</a>	ID of the tick size table available in the Tick Table file.	Numerical ID	2	0..2^16-2	Optional
<a href="#">Pattern ID</a>	Numerical Pattern identifier available as a characteristic of an instrument in Standing Data file and message, and used in the MDG timetable message.	Numerical ID	2	0..2^16-2	Optional
<a href="#">Lot Size</a>	For Cash and Derivatives, it defines a multiple of the tradable quantity.	Quantity	8	0..2^64-2	Optional
<a href="#">Strategy Authorized</a>	Provides strategy types authorized for contract.	Bitmap	8	(See field description)	Optional
<a href="#">Dynamic Collar Logic</a>	For Derivatives, Dynamic Collar Logic is a field used to identify the method of handling orders in case of Trade Price Validation (TPV) being triggered. For Cash, Dynamic Collar Logic is used internally.	Enumerated	1	0 Not Active 2 No Halt with Reject 3 Halt with Acceptation	Optional
<a href="#">Collar Max Unhalt Nb</a>	Maximum number of automatic unhalts if collar logic enables unhalting.	Quantity	1	0..2^8-2	Optional
<a href="#">Collar Unhalt Delay</a>	Delay (in seconds) of automatic unhalt if collar logic enables unhalting.	Time	4	0..2^32-2	Optional
<a href="#">Max Order Quantity Call</a>	Maximum order quantity during an uncrossing phase	Quantity	8	0..2^64-2	Optional
<a href="#">Max Order Quantity Continuous</a>	Maximum order quantity during a continuous phase	Quantity	8	0..2^64-2	Optional
/ContractEMMProperties					Optional
DerivativesParameters				0..254	Optional
<a href="#">EMM</a>	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
<a href="#">Param Name</a>	Name of a Contract parameter.	Enumerated	1	(See field description)	Optional
<a href="#">Param Value</a>	Value of a Contract Parameter.	Text	255		Optional
<a href="#">Param Type Of Expression</a>	Parameter Type Of Expression of Contract Parameter Name.	Enumerated	1	1 Percentage 2 Tick	Optional
/DerivativesParameters					Optional
OutrightStandingDataUnitary				0..254	Optional
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">Contract Symbol Index</a>	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">Instrument Event Date</a>	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	2	0..2^16-2	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">ISIN Code</a>	Instrument ISIN following ISO 6166.	Alphanumeric ID	12	(See field description)	Mandatory
<a href="#">CFI</a>	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Optional
<a href="#">Maturity Date</a>	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Mandatory
<a href="#">Lot Size</a>	<i>Not Used</i>	<i>Quantity</i>	<i>8</i>	<i>Not Used</i>	<i>Mandatory</i>
<a href="#">Strike Price</a>	The strike price of an option/warrant is the specified price at which the underlying can be bought (in the case of a call/right to buy) or sold (in case of a put/right to sell) by the holder (buyer) of the option/warrant contract, at the moment he exercises his right against a writer (seller) of the option/warrant.	Price	8	From $-2^{63+1}$ to $2^{63-1}$	Optional
<a href="#">Last Trading Date</a>	Last available trading date for the instrument	Date	2	0..2 <sup>16-2</sup>	Optional
<a href="#">Days To Expiry</a>	Number of Calendar days until the Last Trading Day of the Expiry.	Numerical	2	0..2 <sup>16-2</sup>	Optional
<a href="#">Derivatives Instrument Trading Code</a>	Derivatives Instrument Trading Code (formerly AMR) is composed of Exchange Code, Contract Type, Product Code, Expiry. For Options, Strike and Option Type (Put or Call) is added.	Alphanumeric ID	18	(See field description)	Optional
<a href="#">Derivatives Instrument Type</a>	Indicates the type of derivative instrument	Enumerated	1	0 Call Option 1 Put Option 2 Strategy 3 Individual Future 4 Underlying	Optional
<a href="#">Expiry Cycle Type</a>	Defines the expiry cycle type	Enumerated	1	1 Daily 2 Weekly 3 Monthly	Optional
<a href="#">Underlying Derivatives Instrument Trading Code</a>	Is the underlying of the Derivatives Instrument Trading Code.	Alphanumeric ID	18	(See field description)	Optional
<a href="#">Underlying Symbol Index</a>	Identifies the Symbol Index of the underlying of the instrument.	Numerical ID	4	0..2 <sup>32-2</sup>	Optional
<a href="#">Trading Unit</a>	Amount of underlying instrument per unit of a derivative contract (to be calculated with the Quantity Decimals). Due to corporate actions, the value may be different between value provided within this field in Contract Standing Data and Outright Standing Data. Value in Outright Standing Data reflects the adjustment due to the corporate action and should be used for that Outright instrument.	Quantity	8	0..2 <sup>64-2</sup>	Optional

Field	Short Description	Format	Len	Values	Presence
<a href="#">Observation Period</a>	Period expressed in a number of business days during which prices from Price Reporting Agency are used to compute the EDSP.	Numerical	2	0..2^16-2	Optional
<a href="#">Observation Period Elapsed</a>	Number of business days elapsed during the observation period (e.g: '2' means it is the second day of the observation period).	Numerical	2	0..2^16-2	Optional
OutrightStandingDatarep					Optional
<a href="#">EMM</a>	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory
/OutrightStandingDatarep					Optional
/OutrightStandingDataUnitary					Optional
StrategyStandingDataUnitary				0..254	Optional
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">Derivatives Instrument Trading Code</a>	Derivatives Instrument Trading Code (formerly AMR) is composed of Exchange Code, Contract Type, Product Code, Expiry. For Options, Strike and Option Type (Put or Call) is added.	Alphanumeric ID	18	(See field description)	Mandatory
<a href="#">Exchange Code</a>	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory
<a href="#">Maturity Date</a>	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8		Mandatory
<a href="#">Strategy Code</a>	Exchange-recognized strategy code	Alphanumeric ID	1	(See field description)	Mandatory
<a href="#">Contract Symbol Index</a>	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">CFI</a>	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Optional
StrategyStandingDatarep				0..254	Optional
<a href="#">Leg Symbol Index</a>	MDG proprietary identification code of the instrument leg for the strategy.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">Leg Price</a>	Price of corresponding strategy leg (to be calculated with the Price/Index Level Decimals).	Price	8	From -2^63+1 to 2^63-1	Optional
<a href="#">Leg Ratio</a>	Ratio of lots for the leg. For contingent trades, the delta.	Quantity	4	0..2^32-2	Mandatory
<a href="#">Leg Buy Sell</a>	Leg Side.	Enumerated	1	B Buy S Sell	Mandatory
/StrategyStandingDatarep					Optional
/StrategyStandingDataUnitary					Optional
MDGSetOfChannels				0..254	Optional

Field	Short Description	Format	Len	Values	Presence
<a href="#">MDG Set Of Channels ID</a>	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
<a href="#">MDG Set Of Channels Name</a>	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
/MDGSetOfChannels					Optional
/ContractStandingDataUnitary					Mandatory
SetOfChannels				1..254	Mandatory
<a href="#">MDG Set Of Channels ID</a>	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
<a href="#">MDG Set Of Channels Name</a>	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
Channels					
<a href="#">Channel Type</a>	Defines the channel.	Enumerated	4	(See field description)	Mandatory
MulticastDataRealTime					
<a href="#">Channel ID</a>	Identifies the channel.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
<a href="#">Channel Speed</a>	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
MulticastA					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastA					
MulticastB					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastB					
/MulticastDataRealTime					
MulticastDataSnapshot					
<a href="#">Channel ID</a>	Identifies the channel.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">Channel Speed</a>	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
MulticastA					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastA					
MulticastB					
<a href="#">Source IP Range</a>	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">DR Source IP Range</a>	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
<a href="#">Multicast Group IP</a>	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
<a href="#">Port Number</a>	Defines the port number.	Numerical	2	0..2 <sup>16</sup> -2	Mandatory
/MulticastB					
/MulticastDataSnapshot					
/Channels					
/SetOfChannels					
LogicalAccessConnectivity					
Partition					
<a href="#">Partition ID</a>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
<a href="#">IP Address Primary</a>	IP Address of the Primary and Secondary (backup) access to the gateway. Provided for all environments (IP v4).	Text	15	Valid IP v4 address	Mandatory
<a href="#">IP Address DR</a>	IP Address of the Disaster Recovery access to the gateway. Populated only for the Disaster Recovery environment, in the file generated for the Production environment. Blank for all other environments (IP v4).	Text	15	Valid IP v4 address	Optional
<a href="#">Partition Type</a>	Indicates the type of Partition, either Order Entry or Drop Copy. Use of Order Entry and Drop Copy gateways require separate and individual setup of the Logical access to each service.	Enumerated	2	OE Order Entry DC Drop Copy	Mandatory
/Partition					

Field	Short Description	Format	Len	Values	Presence
/LogicalAccessConnectivity					

### 3.5 DERIVATIVESTICKSIZEFILE (9021)

- The Ticksize file contains different tables defining the variable tick sizes used for trading activity. A table is composed of an index (identifying a table instance) with a list of price ranges that have corresponding tick sizes. A contract is associated to a table for each EMM it is tradable through.
- Derivatives TickSizetable also include two parameters to be used together with the sizes:
  - Tick Factor
  - Tick Factor Max Period
- Use of Tick Factor and Tick Factor Period :  
 Tick tables are defined on a per contract basis and are applicable to all outrights and strategies within the contract, for both option contract and future contract.  
 The **Tick Factor** allows to define a reduction of the tick size for a maturity group identified through the **Tick Factor Max Period**.  
**Tick Factor Max Period** is a time to expiry (TTE) expressed in months. For all instruments within the contract having a TTE smaller than the **Tick Factor Max Period**, the **Tick Factor** is applied on top of the tick size determined by the tick table and the price range - i.e. Tick size must be divided by **Tick Factor**.

Note: TTE is calculated the following way: (Last Trading Date – Today). To convert it to months and compare to various thresholds :  $TTE(\text{months}) = TTE(\text{Days}) * (12/360)$ .

TTE in days (Last Trading Day – Today) is provided explicitly for each outright in a dedicated field 'Days to Expiry' of **DerivativesStandingDataFile** (9013).

By definition, a strategy expires when one of its leg expires. So TTE of a strategy is the TTE of its nearest leg.

- Tick Sizes for Strategies :  
 Strategies always use the smallest possible tick. Independently from TTE and Tick Factor, strategies will always use the smallest tick of the tick table of the contract.  
 If on top of it, the Strategy has a TTE < Tick Factor Max period, then the Tick Factor also applies.
- File availability  
 This file is available at the start of day and is needed by the Customers for the trading day. Customers must be able to download and process this file on a daily basis.
- Scope of contents  
 The file scope is the following: a tick size table for Derivatives markets, contains variable (price range-dependent) ticks and fixed price ticks.
- Intraday updates  
 No intraday update will be performed on the Tick Size table. Should the need arise, updates will be done in the referential tool and will be applied on the following business day (i.e. D+1). Meaning, the file will only be updated on a daily basis.

The file provides structure is as per the following tree:

- DerivativesTickSizes
  - Tick Size Index ID
  - Tick Table Name
  - Tick Factor Max Period
  - Tick Factor
    - Derivatives Tick Size

Field	Short Description	Format	Len	Values	Presence
DerivativesTickSizes				1..254	
<a href="#">Tick Size Index ID</a>	ID of the tick size table available in the Tick Table file.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
<a href="#">Tick Table Name</a>	Name of the tick size table available in the Tick Table file.	Text	75	(See field description)	Mandatory
<a href="#">Tick Factor Max Period</a>	Indicator expressed in Month. Instrument whose Time To Expiry are lower than the indicator are impacted by the TickFactor (to be calculated with Ratio / Multiplier Decimals)	Numerical	4	0..2 <sup>32</sup> -2	Mandatory
<a href="#">Tick Factor</a>	Tick factor applied to update the TickSize for more liquid instruments available in the Tick Table file (to be calculated with Ratio / Multiplier Decimals).	Numerical	8	0..2 <sup>64</sup> -2	Mandatory
DerivativesTickSize					
<a href="#">Minimum Price</a>	Minimum Price of the order.	Price	8	(See field description)	Mandatory
<a href="#">Tick Size</a>	Tick Size applied between the current Minimum Price and the next Minimum Price.	Price	8	(See field description)	Mandatory
/DerivativesTickSize					
/DerivativesTickSizes					

### 3.6 OPENINTERESTFILE (9014)

Open Interest file provides open interest information calculated by the Clearing system as per the end of the trading day session for Index and Equity Derivatives contracts. For Commodity contracts instead, the Open Interest file is made available around 10:30 of the next day before market opens and contains information calculated by the Clearing system considering also nightly netting activities.

- File Availability: Available 24/7.
- Scope of contents: Derivative instruments.
- Intraday updates: XML file will be created as soon as the open interest file is received from LCH.

Field	Short Description	Format	Len	Values	Presence
OpenInterestFile					
OpenInterestUnitary					
<a href="#">Symbol Index</a>	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2 <sup>32</sup> -2	Mandatory
<a href="#">ISIN Code</a>	Instrument ISIN following ISO 6166.	Alphanumeric ID	12	(See field description)	Mandatory
<a href="#">Open Interest Date</a>	Open interest date (Format YYYYMMDD).	Date	8	(See field description)	Mandatory
<a href="#">Open Interest</a>	Open interest.	Quantity	8	From 0 to 2 <sup>64</sup> -2	Mandatory
/OpenInterestUnitary					
/OpenInterestFile					



### 3.7 REFERENCESPREADSFILE (9045)

Reference Spreads File provides the following referential data used for:

- Market Quality Spread (MQS) for contracts on which Market Making Agreements are defined (Reference Spread – or Market Quality Spread as described in How the Market Works). The spread is expressed as on a per maturity group basis and as a relative to the bid value. MQS is not updatable intraday.
- The Actual Quality Spread (AQS) multiplier, allowing to determine the effective Market Quality Spread applicable at start of day. AQS can be updated intraday (via MDG) and is the effective spread used to measure Market Makers performance. AQS is defined through this multiplier relatively to the reference spread – MQS – and is as such defined relatively to the bid value.
- The Collars multiplier, allowing to determine the collars spread size, defined as a multiplier of the reference spread. The Reference Spread provides values relative to a price level. As such it is applied as compared with the Dynamic Collar Reference Price (instead of the Best Bid Price used for Market Making).

For more details about the use of reference spreads and associated variables please refer to the How the Market Works.

- File Availability: Available 24/7.
- Scope of contents: Derivatives instruments.
- Intraday updates: No intraday updates.

The file provides structure is as per the following tree:

- Reference Spread Unitary
  - Message Core
  - Reference Spread Range

Field	Short Description	Format	Len	Values	Presence
ReferenceSpreadUnitary					
Message Core					
<a href="#">Reference Spread Table ID</a>	ID of the Reference Spread Table.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
<a href="#">Reference Spread Table Name</a>	Name of the Reference Spread Table.	Text	75	(See field description)	Mandatory
/Message Core					
ReferenceSpreadRange				1..254	
Message Core					
<a href="#">TTE range Lower Limit</a>	Time to Expiry. Expressed as Months (to be calculated with the Ratio / Multiplier Decimals).	Numerical ID	4	0..2 <sup>32</sup> -2	Mandatory
<a href="#">Low Price Range</a>	This field is used to define a Price Range. Starting from this Price and until the next 'Low Price Range', the associated parameter should be applied (to be calculated with the Price / Index Level Decimals).	Price	8	From -2 <sup>63</sup> +1 to 2 <sup>63</sup> -1	Mandatory
<a href="#">Reference Spread</a>	Reference Spread.	Numerical	8	From -2 <sup>63</sup> +1 to 2 <sup>63</sup> -1	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">AQS Multiplier</a>	Actual Quality Spread Multiplier. Enable to calculate the Actual Quality Spread to know whether the DCRP is Mid-BBO or Fair Value (to be calculated with the Ratio / Multiplier Decimals).	Numerical	4	0..2^32-2	Mandatory
<a href="#">Collars Multiplier</a>	Allows to determine the effective Collars by applying this multiplier to the Market Quality spread, which enables clients to determine in real time the collars applied by the system for each individual order book (to be calculated with the Ratio / Multiplier Decimals).	Numerical	4	0..2^32-2	Mandatory
<a href="#">Reference Spread Expression</a>	Units in which Reference Spread is expressed.	Enumerated	1	1 Percentage 2 Absolute	Mandatory
/Message Core					
/ReferenceSpreadRange					
/ReferenceSpreadUnitary					

### 3.8 PREVDAYCAPANDVOLTRADFILE (9015)

Previous Day Capital and Volume Traded file provides Previous Volume Traded and Previous Day Capital Traded information.

- File Availability: Available 24/7.
- Scope of contents: Cash instruments.
- Intraday updates: XML file will be created as soon as this information will be available.

Field	Short Description	Format	Len	Values	Presence
PrevDayCapAndVolTradCoreUnitary					
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2^32-2	Mandatory
<a href="#">ISIN Code</a>	Instrument ISIN following ISO 6166.	Alphanumeric ID	12	(See field description)	Mandatory
<a href="#">Prev Day Capital Traded</a>	Cumulative capital traded for all trades from previous day on an instrument (to be calculated with the Amount Decimals). Not provided for non-Euronext traded instruments.	Amount	8	0..2^64-2	Mandatory
<a href="#">Previous Volume Traded</a>	Number of shares traded (to be calculated with the Quantity Decimals) on this instrument during trading day identified by 'DateOfLastTrade'. Not provided for non-Euronext traded instruments.	Quantity	8	0..2^64-2	Mandatory
/PrevDayCapAndVolTradCoreUnitary					

### 3.9 REPOSETTLEMENTPRICEFILE (9016)

Repo Settlement Price File is used to communicate the previous day settlement price for each repo instruments.

- File Availability: Available 24/7.
- Scope of contents: Cash instruments.
- Intraday updates: XML file will be created as soon as this information will be available in the morning (for previous day value).

Field	Short Description	Format	Len	Values	Presence
RepoSettlementPriceUnitary					
<a href="#">Symbol Index</a>	Exchange identification code of the instrument/contract.	Numerical ID	4	0..2 <sup>32</sup> -2	Mandatory
<a href="#">Repo Settlement Price</a>	The settlement price (to be calculated with Price / Index Level Decimals) is a standard price used to value the trade that initiates an instrument lending transaction and to calculate the return price.	Price	8	From -2 <sup>63</sup> +1 to 2 <sup>63</sup> -1	Mandatory
/RepoSettlementPriceUnitary					

### 3.10 TIMETABLEFILE (9001)

The Timetable file indicates the scheduled trading patterns, on a given day, associated to a Symbol Index linked by the Pattern ID. Please Refer to Optiq MDG Client Specifications for details. The file is provided on a per Segment basis, according to the SBE version it follows.

- File Availability: Available 24/7.
- Scope of contents: All the Exchange segments for Market Data.
- Intraday updates: This file will be updated overnight.

Field	Short Description	Format	Len	Values	Presence
Pattern					
<a href="#">Pattern ID</a>	Numerical Pattern identifier available as a characteristic of an instrument in Standing Data file and message, and used in the MDG timetable message.	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
Phase					
<a href="#">Phase Time</a>	Time of Phase start	String	9	hh:mm:ssZ where Z is for UTC	Mandatory
<a href="#">Phase Id</a>	Indicates the phase of the instrument.	Enumerated	1	(See field description)	Mandatory
<a href="#">Phase Qualifier</a>	Indicates the Phase Qualifier .	Bitmap	2	(See field description)	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">Trading Period</a>	Provides the current trading period.	Enumerated	1	1 Opening (Cash and Derivatives) 2 Standard (Cash and Derivatives) 3 Closing (Cash and Derivatives)	Mandatory
<a href="#">Order Entry Qualifier</a>	Field indicating the state of the Order Entry for the current market state.	Enumerated	1	0 Order Entry/Cancel/Modify Disabled 1 Order Entry/Cancel/Modify Enabled 2 Cancel and Modify Only (Derivatives Only) 3 Cancel Only	Optional
<a href="#">Session</a>	Current market session.	Enumerated	1	(See field description)	Mandatory
<a href="#">Scheduled Event</a>	Type of Scheduled Event.	Enumerated	1	(See field description)	Optional
/Phase					
/Pattern					

### 3.11 AUTHORIZED PRICE FLUCTUATION FILE (9008)

The Authorized Price Fluctuation file details the Authorized Price Fluctuation (APF) tables, on a given day.

The APF tables are used in the context of Static, Dynamic and Order Price Control Collars. Using the instrument price as a key, the APF table allows to deduce the corresponding Allowed Price Fluctuation.

The file is provided on a per Segment basis.

- File Availability: Available 24/7.
- Scope of contents: All the Exchange segments for Market Data.
- Intraday updates: This file will be updated overnight.

Field	Short Description	Format	Len	Values	Presence
<a href="#">APF Index ID</a>	Identifier of the APF table	Numerical ID	2	0..2 <sup>16</sup> -2	Mandatory
APFTableSection					
<a href="#">Minimum Price</a>	Lower Limit of the APF range	Price	8	From -2 <sup>63</sup> +1 to 2 <sup>63</sup> -1	Mandatory
<a href="#">Authorized Price Fluctuation</a>	APF Value	Price	8	From 0 to 2 <sup>63</sup> -1	Mandatory
<a href="#">Authorized Price Fluctuation Type</a>	Indicates whether the APF is expressed in Percentage or Absolute Value	Enumerated	1	1 Percentage 2 Absolute Value	Mandatory
/APFTableSection					

Below an example of an APF table:

APF Index ID	Minimum Price	Authorized Price Fluctuation	Authorized Price Fluctuation Type
12	0	5	Percentage
12	75	10	Percentage
12	150	15	Percentage

The above APF table example is to be read as follows:

- If  $0 < \text{Instrument Price} < 75$ , then allowed Price Fluctuation is 5%
- If  $75 \leq \text{Instrument Price} < 150$ , then allowed Price Fluctuation is 10%
- If  $150 \leq \text{Instrument Price}$ , then allowed Price Fluctuation is 15%

An APF table will always contain at least one line, with 0 minimum Price.

### 3.12 EURONEXT RLP UNIVERSE FILE

The Euronext RLP (Retail Liquidity Providers) File, is flat csv file, delimited by a semi-colon. It provides a list of instruments codes with their associated index. The file will be available through CFTS Referential Data Service using SFTP with SSH key authentication.

The first line of the files contains the filename, internal application reference, date and time the file was created.

The second line of the file contains the field names delimited by a semi-colon.

- File Availability: Available 24/7.
- Scope of contents: All the Exchange segments for Market Data.
- Intraday updates: This file will be updated overnight.

File name will follow this template:

IDSCash\_<ENV>Euronext-RLPUNIVERSE\_YYYYMMDD.csv

- Where <ENV> can take the following values: Production, v-EUA, p-EUA

Field	Short Description	Format	Len	Values	Presence
<a href="#">InstrumentCode</a>	Instrument code	String	12	(See field description)	Mandatory
<a href="#">TradingCode</a>	Trading instrument code	String	12	(See field description)	Mandatory
<a href="#">Mnemonic</a>	Instrument mnemonic code	String	5	(See field description)	Mandatory
<a href="#">Name</a>	Instrument name	String	30	(See field description)	Mandatory
<a href="#">Index</a>	Instrument index	String	30	(See field description)	Mandatory

### 3.13 MEMBERS FAMILY INSTRUMENTS

The Members Family Instruments (MBR\_FAMINSTR) file is a flat text file, delimited by field length. It provides a list of instruments codes with their associated internal instrument categories. The file will be available through CFTS Referential Data Service using SFTP with SSH key authentication.

The first line of the file contains the field names delimited by a forward slash.

- File Availability: Available 24/7.
- Scope of contents: All the Exchange segments for Market Data.
- Intraday updates: This file will be updated overnight.

File name will follow this template:

IDSCash\_<ENV>MBR\_FAMINSTR\_YYYYMMDD.txt

- Where <ENV> can take the following values: Production, v-EUA, p-EUA

Field	Short Description	Format	Len	Values	Presence
<a href="#">DJCALD</a>	Trading date YYYYMMDD	String	8	(See field description)	Mandatory
<a href="#">CODE_EURONEX_I</a>	Internal instrument identification code	String	12	(See field description)	Mandatory
<a href="#">CISIN</a>	ISIN Code	String	12	(See field description)	Mandatory
<a href="#">CIDGRC</a>	Trading group code	String	2	(See field description)	Mandatory
<a href="#">CGDSVAL</a>	Instrument category	String	1	(See field description)	Mandatory
<a href="#">YVAL</a>	Instrument type/processing category	String	3	(See field description)	Mandatory
<a href="#">LFAMINSTR</a>	Instrument category description	String	30	(See field description)	Mandatory

### 3.14 TOTAL RETURN FUTURES CONVERSION PARAMETERS FILES

The TRF Conversion Parameters files provide the following data on a daily basis:

- Contract characteristics: Maturity name, Number of days to expiry, Daily Settlement Price...
- Indices values of the previous day and current day: CAC 40 Funding index, CAC 40 Synthetic index and the CAC 40 Cumulative Dividend index

Two TRF Conversion Parameters files are produced each day. A Start Of Day (SOD) file is available before opening with limited data around 09:20 CET. And the End Of Day (EOD) file is available after closing with extended data before 20:00 CET. These files are available via the Euronext File Server (EFS), Common File Transfer System (CFTS) using SFTP with SSH key pair authentication, and on the Euronext website.

The TRF Conversion parameter files will be available under the 'IndexDerivatives' segment.

The layout of the file is the same between the Start Of Day (SOD) and the End Of Day (EOD) file.

#### 3.14.1 Total Return Futures Conversion Parameters file SOD CSV

File name will follow this template:

UTPDerivatives\_<ENV>\_TotalReturnFuturesConversionParameters\_IndexDerivatives\_SOD\_YYYYMMDD.csv

- Where <ENV> can take the following values: Production, v-EUA, p-EUA
- Where SOD stands for Start Of Day
- Field separator: `;`
- Separator at the end of the line
- First line contains columns' header
- Decimals separator: `.`
- Numeric can be negatively signed: `-`

Field	Short Description	Format	Len	Values	Presence
<a href="#">PublicationTime</a>	Time when the file is generated	Date	17	20220705 08:26:08	Mandatory
<a href="#">ContractCode</a>	Contract identifier	Text	6	'JFFCT '	Mandatory
<a href="#">ExpiryCode</a>	Maturity identifier with format MMMYY	Text	5	JUL22	Mandatory
<a href="#">SymbolIndex</a>	Contract symbol index	Text	10	4184600006	Mandatory
<a href="#">ProdBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">AnnualisationFactor</a>	Always equal to 360	Numerical	1	360	Not used
<a href="#">BusinessDayOffset</a>	Always equal to 2	Numerical	1		Not used
<a href="#">DaySettlDate</a>	Date of current day + 2 business day	Date	17		Not used
<a href="#">FundingDays</a>	Today's DaySettlDate - Yesterday's DaySettlDate	Numerical	1		Not used
<a href="#">InstBusDate</a>	Date of current day	Date	17		Not used
<a href="#">ExpSettlDate</a>	Expiry date + 2 business days	Date	17		Not used
<a href="#">DaysToMaturity</a>	The days to maturity for each expiry	Numerical	1	80	Mandatory
<a href="#">SettlSpread</a>	Orderbook settlement price in index points	Numerical	8		Not used
<a href="#">SettlBasis</a>	Orderbook settlement price in basis points	Numerical	8		Not used
<a href="#">SettlClgPrc</a>	DSP in index points	Numerical	8		Not used
<a href="#">FundingIndex</a>	Funding index of current day (C4FU)	Numerical	8	-0.27799613	Mandatory
<a href="#">CumulativeDividendIndex</a>	Accumulated dividend index of current day (C4CD)	Numerical	8	330.83	Mandatory
<a href="#">PreliminaryIndex</a>	CAC index close of the previous business day	Numerical	8	5491.404354	Mandatory
<a href="#">FinalIndex</a>	CAC index close of the current day	Numerical	8		Not used
<a href="#">FundingRate</a>	Recalibrated EONIA[1] index of the previous business day	Numerical	8		Not used
<a href="#">DailyFunding</a>	Today's Funding Index Close - Yesterday's Funding Index Close	Numerical	8		Not used

Field	Short Description	Format	Len	Values	Presence
<a href="#">DailyDistribution</a>	Today's Accumulated dividend Index Close - Yesterday's Accumulated dividend Index Close	Numerical	8		Not used
<a href="#">SyntheticDividendIndex</a>	CAC synthetic dividend index (C4SD) close of the current day	Numerical	8		Not Used

### 3.14.2 Total Return Futures Conversion Parameters file SOD XML

File name will follow this template:

UTPDerivatives\_<ENV>\_TotalReturnFuturesConversionParameters\_IndexDerivatives\_SOD\_YYYYMMDD.xml

- Where <ENV> can take the following values: Production, v-EUA, p-EUA
- Where SOD stands for Start Of Day

Field	Short Description	Format	Len	Values	Presence
TRFConversionParameters File					
ExpiryConversionParametersUnitary					
<a href="#">PublicationTime</a>	Time when the file is generated	Date	17	20220705 8:26:08	Mandatory
<a href="#">ContractCode</a>	Contract identifier	Text	6	'JFFCT '	Mandatory
<a href="#">ExpiryCode</a>	Maturity identifier with format MMMYY	Text	5	JUL22	Mandatory
<a href="#">SymbolIndex</a>	Contract symbol index	Text	10	4184600006	Mandatory
<a href="#">ProdBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">AnnualisationFactor</a>	Always equal to 360	Numerical	1		Not used
<a href="#">BusinessDayOffset</a>	Always equal to 2	Numerical	1		Not used
<a href="#">DaySettlDate</a>	Date of current day + 2 business day	Date	17		Not used
<a href="#">FundingDays</a>	Today's DaySettlDate - Yesterday's DaySettlDate	Numerical	1		Not used
<a href="#">InstBusDate</a>	Date of current day	Date	17		Not used
<a href="#">ExpSettlDate</a>	Expiry date + 2 business days	Date	17		Not used
<a href="#">DaysToMaturity</a>	The days to maturity for each expiry	Numerical	1	80	Mandatory
<a href="#">SettlSpread</a>	Orderbook settlement price in index points	Numerical	8		Not used
<a href="#">SettlBasis</a>	Orderbook settlement price in basis points	Numerical	8		Not used
<a href="#">SettlClgPrc</a>	DSP in index points	Numerical	8		Not used
<a href="#">FundingIndex</a>	Funding index of current day (C4FU)	Numerical	8	-0.27799613	Mandatory
<a href="#">CumulativeDividendIndex</a>	Accumulated dividend index of current day (C4CD)	Numerical	8	330.83	Mandatory
<a href="#">PreliminaryIndex</a>	CAC index close of the previous business day	Numerical	8	5491.404354	Mandatory
<a href="#">FinalIndex</a>	CAC index close of the current day	Numerical	8		Not used



Field	Short Description	Format	Len	Values	Presence
<a href="#">FundingRate</a>	Recalibrated EONIA[1] index of the previous business day	Numerical	8		Not used
<a href="#">DailyFunding</a>	Today's Funding Index Close - Yesterday's Funding Index Close	Numerical	8		Not used
<a href="#">DailyDistribution</a>	Today's Accumulated dividend Index Close - Yesterday's Accumulated dividend Index Close	Numerical	8		Not used
<a href="#">SyntheticDividendIndex</a>	CAC synthetic dividend index (C4SD) close of the current day	Numerical	8		Not Used
/ExpiryConversionParametersUnitary					
/TRFConversionParametersFile					

### 3.14.3 Total Return Futures Conversion Parameters file EOD CSV

File name will follow this template:

UTPDerivatives\_<ENV>\_TotalReturnFuturesConversionParameters\_IndexDerivatives\_EOD\_YYYYMMDD.csv

- Where <ENV> can take the following values: Production, v-EUA, p-EUA
- Where EOD stands for End Of Day
- Field separator: `;`
- Separator at the end of the line
- First line contains columns' header
- Decimals separator: `.`
- Numeric can be negatively signed: `-'

Field	Short Description	Format	Len	Values	Presence
<a href="#">PublicationTime</a>	Time when the file is generated	Date	17	20220705 18:02:08	Mandatory
<a href="#">ContractCode</a>	Contract identifier	Text	6	'JFFCT '	Mandatory
<a href="#">ExpiryCode</a>	Maturity identifier with format MMMYY	Text	5	JUL22	Mandatory
<a href="#">SymbolIndex</a>	Contract symbol index	Text	10	4184600006	Mandatory
<a href="#">ProdBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">AnnualisationFactor</a>	Always equal to 360	Numerical	1	360	Mandatory
<a href="#">BusinessDayOffset</a>	Always equal to 2	Numerical	1	2	Mandatory
<a href="#">DaySettleDate</a>	Date of current day + 2 business day	Date	17	20220705 00:00:00	Mandatory
<a href="#">FundingDays</a>	Today's DaySettleDate - Yesterday's DaySettleDate	Numerical	1	3	Mandatory
<a href="#">InstBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">ExpSettleDate</a>	Expiry date + 2 business days	Date	17	20220707 00:00:00	Mandatory
<a href="#">DaysToMaturity</a>	The days to maturity for each expiry	Numerical	1	80	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">SettlSpread</a>	Orderbook settlement price in index points	Numerical	8	0.59369	Mandatory
<a href="#">SettlBasis</a>	Orderbook settlement price in basis points	Numerical	8	5	Mandatory
<a href="#">SettlClqPrc</a>	DSP in index points	Numerical	8	5822.81	Mandatory
<a href="#">FundingIndex</a>	Funding index of current day (C4FU)	Numerical	8	-0.27799613	Mandatory
<a href="#">CumulativeDividendIndex</a>	Accumulated dividend index of current day (C4CD)	Numerical	8	330.83	Mandatory
<a href="#">PreliminaryIndex</a>	CAC index close of the previous business day	Numerical	8	5491.404354	Mandatory
<a href="#">FinalIndex</a>	CAC index close of the current day	Numerical	8	5410.846096	Mandatory
<a href="#">FundingRate</a>	Recalibrated EONIA[1] index of the previous business day	Numerical	8	-0.00365	Mandatory
<a href="#">DailyFunding</a>	Today's Funding Index Close - Yesterday's Funding Index Close	Numerical	8	-0.1670311	Mandatory
<a href="#">DailyDistribution</a>	Today's Accumulated dividend Index Close - Yesterday's Accumulated dividend Index Close	Numerical	8	0	Mandatory
<a href="#">SyntheticDividendIndex</a>	CAC synthetic dividend index (C4SD) close of the current day	Numerical	8	5741.402004	Mandatory

### 3.14.4 Total Return Futures Conversion Parameters file EOD XML

File name will follow this template:

UTPDerivatives\_<ENV>\_TotalReturnFuturesConversionParameters\_IndexDerivatives\_EOD\_YYYYMMDD.xml

- Where <ENV> can take the following values: Production, v-EUA, p-EUA
- Where EOD stands for EOD for End Of Day.

Field	Short Description	Format	Len	Values	Presence
TRFConversionParametersFile					
ExpiryConversionParametersUnitary					
<a href="#">PublicationTime</a>	Time when the file is generated	Date	17	20220705 18:02:08	Mandatory
<a href="#">ContractCode</a>	Contract identifier	Text	6	'JFFCT '	Mandatory
<a href="#">ExpiryCode</a>	Maturity identifier with format MMMYY	Text	5	JUL22	Mandatory
<a href="#">SymbolIndex</a>	Contract symbol index	Text	10	4184600006	Mandatory
<a href="#">ProdBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">AnnualisationFactor</a>	Always equal to 360	Numerical	1	360	Mandatory
<a href="#">BusinessDayOffset</a>	Always equal to 2	Numerical	1	2	Mandatory
<a href="#">DaySettlDate</a>	Date of current day + 2 business day	Date	17	20220705 00:00:00	Mandatory
<a href="#">FundingDays</a>	Today's DaySettlDate - Yesterday's DaySettlDate	Numerical	1	3	Mandatory

Field	Short Description	Format	Len	Values	Presence
<a href="#">InstBusDate</a>	Date of current day	Date	17	20220705 00:00:00	Mandatory
<a href="#">ExpSettlDate</a>	Expiry date + 2 business days	Date	17	20220705 00:00:00	Mandatory
<a href="#">DaysToMaturity</a>	The days to maturity for each expiry	Numerical	1	80	Mandatory
<a href="#">SettlSpread</a>	Orderbook settlement price in index points	Numerical	8	0.59369	Mandatory
<a href="#">SettlBasis</a>	Orderbook settlement price in basis points	Numerical	8	5	Mandatory
<a href="#">SettlClgPrc</a>	DSP in index points	Numerical	8	5822.81	Mandatory
<a href="#">FundingIndex</a>	Funding index of current day (C4FU)	Numerical	8	-0.27799613	Mandatory
<a href="#">CumulativeDividendIndex</a>	Accumulated dividend index of current day (C4CD)	Numerical	8	330.83	Mandatory
<a href="#">PreliminaryIndex</a>	CAC index close of the previous business day	Numerical	8	5491.404354	Mandatory
<a href="#">FinalIndex</a>	CAC index close of the current day	Numerical	8	5410.846096	Mandatory
<a href="#">FundingRate</a>	Recalibrated EONIA[1] index of the previous business day	Numerical	8	-0.00365	Mandatory
<a href="#">DailyFunding</a>	Today's Funding Index Close - Yesterday's Funding Index Close	Numerical	8	-0.1670311	Mandatory
<a href="#">DailyDistribution</a>	Today's Accumulated dividend Index Close - Yesterday's Accumulated dividend Index Close	Numerical	8	0	Mandatory
<a href="#">SyntheticDividendIndex</a>	CAC synthetic dividend index (C4SD) close of the current day	Numerical	8	5741.402004	Mandatory
/ExpiryConversionParametersUnitary					
/TRFConversionParametersFile					

## 4. FIELD DESCRIPTION

### A

#### Amount Decimals

FIELD NAME	AMOUNT DECIMALS
Description	Indicates the number of decimals for each Amount related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

#### Annualisation Factor

FIELD NAME	ANNUALISATIONFACTOR
Description	Always equal to 360
Format	Numerical
Length	1
Possible Values	360
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>

#### Anonymous

FIELD NAME	ANONYMOUS
Description	Indicates if the Member identifier (Firm ID) that placed the order is to be published in market data order notifications.
Format	Boolean
Length	1
Possible Values	0 = Anonymous 1 = Non Anonymous
Used In	<a href="#">CashStandingDataFile (9007)</a>

#### APF Index ID

FIELD NAME	ANONYMOUS
Description	Identifier of the APF table
Format	Numerical ID
Length	2
Possible Values	0..2 <sup>16-2</sup>
Used In	<a href="#">Authorized Price Fluctuation File (9008)</a>

## AQS Multiplier

FIELD NAME	AQS MULTIPLIER
Description	Actual Quality Spread Multiplier. Enable to calculate the Actual Quality Spread to know whether the DCRP is Mid-BBO or Fair Value (to be calculated with the Ratio / Multiplier Decimals).
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Asset Class

FIELD NAME	ASSET CLASS
Description	Defines the Asset Class for a group of products.
Format	Enumerated
Length	3
Possible Values	EQT = Equities BoB = Best of Book (BoB) TRP = Trade Reporting and Publication SIS = Société Générale Systematic Internalizer (SI) ETF = ETFs FIX = Fixed Income WAC = Warrants and Certificates BDL = Luxembourg Stock Exchange EQO = Equity Options IDO = Index Options CCO = Currency Options ATO = AtomX (for Flex Contracts) EIF = Equity and Index Futures CCF = Currency Futures COD = Commodity Derivatives EXI = Euronext Indices INA = Euronext iNAVs TPI = Third Party Indices APA = Approved Publication Arrangement
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## AUM

FIELD NAME	AUM
Description	Stands for Asset Under Management. Indicates the fund's total market value (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Authorized Price Fluctuation

FIELD NAME	AUTHORIZED PRICE FLUCTUATION
Description	Lower Limit of the APF range. Price with '.' as a separator followed by 7 decimals.
Format	Price
Length	8
Possible Values	From $-2^{63}+1$ to $2^{63}-1$
Used In	<a href="#">Authorized Price Fluctuation File (9008)</a>

## Authorized Price Fluctuation Type

FIELD NAME	AUTHORIZED PRICE FLUCTUATION TYPE
Description	Indicates whether the APF is expressed in Percentage or Absolute Value
Format	Enumerated
Length	1
Possible Values	1 Percentage 2 Absolute Value
Used In	<a href="#">Authorized Price Fluctuation File (9008)</a>

## B

### BIC Main Depository

FIELD NAME	BIC MAIN DEPOSITORY
Description	Identifies the BIC of the default depository organization.
Format	Alphanumerical ID (character)
Length	11
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

### Block Price Control ID

FIELD NAME	BLOCK PRICE CONTROL ID
Description	ID of the Block Price Table.
Format	Numerical ID (unsigned integer 16) XML: unsigned integer 16
Length	2
Possible Values	$0..2^{16}-2$ Null value: $2^{16}-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Bloomberg Ticker Code

FIELD NAME	BLOOMBERG TICKER CODE
Description	Indicates the Bloomberg Ticker Code.
Format	Alphanumerical ID (character)
Length	13
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Bps High Collar

FIELD NAME	BPS HIGH COLLAR
Description	Indicates the High collar applied on the NAV order book of ETF MTF. It is derived from the creation fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).
Format	Price (signed integer 64)
Length	8
Possible Values	$-2^{63}+1..2^{63}-1$ Null value: $-2^{63}$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Bps Low Collar

FIELD NAME	BPS LOW COLLAR
Description	Indicates the low collar applied on the NAV order book of ETF MTF. It is derived from the redemption fees of the primary market. Information expressed in basis points (bps) (to be calculated with the Price/Index Level Decimals).
Format	Price (signed integer 64)
Length	8
Possible Values	$-2^{63}+1..2^{63}-1$ Null value: $-2^{63}$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Business Day Offset

FIELD NAME	BUSINESSDAYOFFSET
Description	Always equal to 2
Format	Numerical
Length	1
Possible Values	2
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives



## CFI

FIELD NAME	CFI
Description	Classification code of a financial instrument defined by the ISO-10962:2015 standard.
Format	Text (character)
Length	6
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## CGDSVAL

FIELD NAME	CGDSVAL
Description	Instrument category
Format	Text
Length	1
Possible Values	A - Equity type securities (including shares) O - Bonds and equity linked bonds (i.e. convertible bonds and exchangeable bonds) I - Indexes T - Trackers W - Warrants and certificates D - Other.
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## Channel ID

FIELD NAME	CHANNEL ID
Description	Identifies the channel. First figure defines if it is Real-Time feed (1 Production, 3 v-EUA or 5 p-EUA) or Snapshot feed (2 Production, 4 v-EUA or 6 p-EUA). Second figure identifies the MDG partition (partition 1 will start with 0 as second figure). Last 3 figures are channel identifier and it is unique and the same across the different platforms we have (v-EUA/p-EUA/Production).
Format	Numerical (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Channel Speed

FIELD NAME	CHANNEL SPEED
Description	Defines the Channel bandwidth.
Format	Enumerated (character)
Length	4



FIELD NAME	CHANNEL SPEED
Possible Values	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Channel Type

FIELD NAME	CHANNEL TYPE
Description	Defines the channel.
Format	Enumerated (character)
Length	4
Possible Values	FBOU Full Order Book – Order Update message FBMU Full Order Book – Market Update message REFI Indices and referential channel REFT Trades and referential channel BBBO Best Bid and Best Offer channel APSI APA SI Quotes channel APTR APA Trade Publication channel SNPS Synapse Trades channel EBLK Block channel
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## CISIN

FIELD NAME	CISIN
Description	Instrument ISIN code
Format	Text
Length	12
Possible Values	Instrument ISIN codes
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## CIDGRC

FIELD NAME	CIDGRC
Description	Trading group code
Format	Text
Length	2
Possible Values	Internal Euronext trading group codes
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## Closing Price Type

FIELD NAME	CLOSING PRICE TYPE
Description	Closing Price Type. Indicates the type of closing Price configured for the instrument. If none, Last Adjusted Closing Price is used.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Last Traded Price (LTP) 2 Volume Weighted Average Price (VWAP) 3 Volume Weighted Average Price (VWAP X Trades) 4 Closing Uncrossing Price – VWAP 5 Closing Uncrossing Price – BBO 6 VWAP – BBO 7 Not Applicable 8 VWAP - Closing Price of Reference Market 9 Last Adjusted Closing Price (LACP) Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Code\_Euronext

FIELD NAME	CODE_EURONEXT
Description	<i>Internal Euronext instrument identify code / ISIN</i>
Format	Text
Length	12
Possible Values	<i>Instrument ISIN codes</i>
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## Collar Expansion Factor

FIELD NAME	COLLAR EXPANSION FACTOR
Description	Numerical coefficient applied in collar calculation.
Format	Numerical ID (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Collar Max Unhalt Nb

FIELD NAME	COLLAR MAX UNHALT NB
Description	Maximum number of automatic attempts to unhalt system. Applies only if Dynamic Collar Logic enables unhalting. Used for Trade Price Validation (TPV).
Format	Quantity (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Collar Unhalt Delay

FIELD NAME	COLLAR UNHALT DELAY
Description	Delay (in seconds) of automatic unhalt If Dynamic Collar Logic enables unhalting. Used for Trade Price Validation (TPV).
Format	Time (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32-2</sup> Null value: 2 <sup>32-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Collars Multiplier

FIELD NAME	COLLARS MULTIPLIER
Description	Allows to determine the effective Collars by applying this multiplier to the Market Quality spread, which enables clients to determine in real time the collars applied by the system for each individual order book (to be calculated with the Ratio / Multiplier Decimals).
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32-2</sup> Null value: 2 <sup>32-1</sup>
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Contract Code

FIELD NAME	CONTRACTCODE
Description	Contract code
Format	Text (character)
Length	6
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Contract Event Date

FIELD NAME	CONTRACT EVENT DATE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	0..2 <sup>16-2</sup> Null value: 2 <sup>16-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Contract Name

FIELD NAME	CONTRACT NAME
Description	Contract Name
Format	Text (character)
Length	60
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Contract Symbol Index

FIELD NAME	CONTRACT SYMBOL INDEX
Description	Identifies the contract of this instrument by its Symbol Index.
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Contract Trading Type

FIELD NAME	CONTRACT TRADING TYPE
Description	Contract Trading Type.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Traded as an outright 2 Not traded, but listed in contract data. Traders may subscribe to it 3 Traded as a simple inter-commodity spread 4 Traded as an inter-commodity spread Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Contract Type

FIELD NAME	CONTRACT TYPE
Description	Generic Contract Type.
Format	Enumerated (character)
Length	1
Possible Values	F Future O Option U Underlying
Conditions	Value U (Underlying) is for internal Exchange use only
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Country Of Exchange

FIELD NAME	COUNTRY OF EXCHANGE
Description	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Cumulative Dividend Index

FIELD NAME	CUMULATIVEDIVIDENDINDEX
Description	Accumulated dividend index of current day (C4CD)
Format	Numerical
Length	1
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Currency Coefficient

FIELD NAME	CURRENCY COEFFICIENT
Description	<p>When an actual price is displayed in a different 'price expression' than the official instrument trading currency, the Currency Coefficient represents the ratio 'price expression' divided by 'official currency' (To be calculated with Ratio / Multiplier Decimals).</p> <p>For example a UK-listed instrument with its trading currency GBP having a price expressed in Pence, the Currency Coefficient will be 0.01 expressed with Currency Coefficient set to 1 and Ratio / Multiplier Decimals set to 2.</p> <p>The Currency Coefficient may be used for the Instrument Trading Price (the Referential field Trading Currency Indicator is then set to 1), and/or for the Derivatives and Warrants Instrument Strike Price (the Referential field Strike Currency Indicator is then set to 1).</p>
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Cut Off Time

FIELD NAME	CUT OFF TIME
Description	Indicates the point reached in the day from which the order will not be processed for the current business day. Time in an integer on 4 bytes expressed as hhmmss
Format	Integer Time in hhmmss (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## D

## Daily Distribution

FIELD NAME	DAILYDISTRIBUTION
Description	Today's Accumulated dividend Index Close - Yesterday's Accumulated dividend Index Close
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Daily Funding

FIELD NAME	DAILYFUNDING
Description	Today's Funding Index Close - Yesterday's Funding Index Close
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Dark Eligibility

FIELD NAME	DARK ELIGIBILITY
Description	Indicates the Eligibility to dark. 0 is not eligible, 1 is eligible.
Format	Boolean (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Dark LIS Threshold

FIELD NAME	DARK LIS THRESHOLD
Description	Defines the minimum amount of an order to benefit from the LIS (Large In Scale) pre-transparency waiver (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Dark Min Quantity

FIELD NAME	DARK MINIMUM QUANTITY
Description	Defines the minimum quantity required for an order to be filled in the Dark liquidity. 0 indicates that no minimum amount is required.
Format	Quantity (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32-2</sup>

FIELD NAME	DARK MINIMUM QUANTITY
	Null value: $2^{32}-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Date Next Tradable NAV

FIELD NAME	DATE NEXT TRADABLE NAV
Description	Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD
Format	Date (unsigned integer 32)
Length	4
Possible Values	$0..2^{32}-2$ Null value: $2^{32}-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Date Of Last Trade

FIELD NAME	DATE OF LAST TRADE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	$0..2^{16}-2$ Null value: $2^{16}-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Day Settle Date

FIELD NAME	DAYSETTLDATE
Description	Date of current day plus 2 business days
Format	Date
Length	17
Used In	<a href="#">Total Return Future Conversion Parameters files</a>

## Days To Expiry

FIELD NAME	DAYS TO EXPIRY
Description	Number of Calendar days until the Last Trading Day of the Expiry.
Format	Numerical (unsigned integer 16)
Length	2
Possible Values	$0..2^{16}-2$ Null value: $2^{16}-1$
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Days To Maturity

FIELD NAME	DAYSTOMATURITY
Description	Number of Calendar days to maturity for each expiry
Format	Numerical
Length	1
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>

## Declaration Duration

FIELD NAME	DECLARATION DURATION
Description	Declaration Duration (in minutes).
Format	Time (unsigned integer 64) XML: unsigned integer 64
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>

## Depository List

FIELD NAME	DEPOSITORY LIST
Description	Identifies the possible main depository organizations (maximum four) for shares or fixed income. Use the clearing house to determine the relevant system for settling trades. Valid values are: <ul style="list-style-type: none"> <li>- '00001' – Euroclear France</li> <li>- '00002' – CIK (Belgium)</li> <li>- '00003' – NECIGEF (the Netherlands)</li> <li>- '00004' – X/N (BoB service)</li> <li>- '00005' – VIF (non-fungible Belgian instruments)</li> <li>- '00006' – Euroclear Bank</li> <li>- '00007' – NIEC</li> <li>- '00008' – Physical</li> <li>- '00009' – Euronext Paris non Euroclear France</li> <li>- '00010' – Interbolsa</li> <li>- '00000' – No depository organization</li> <li>- 'Nulls' – Not significant</li> </ul>
Format	Text (character)
Length	20
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Derivatives Instrument Trading Code

FIELD NAME	DERIVATIVES INSTRUMENT TRADING CODE
Description	Derivatives Instrument Trading Code (formerly AMR) is composed of Exchange Code, Contract Type, Product Code, Expiry. For Options, Strike and Option Type (Put or Call) is added.
Format	Alphanumeric ID (character)
Length	18
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>



FIELD NAME	DERIVATIVES INSTRUMENT TRADING CODE
User For	Cash and Derivatives

## Derivatives Instrument Type

FIELD NAME	DERIVATIVES INSTRUMENT TYPE
Description	Indicates the type of derivative instrument
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Call Option 1 Put Option 2 Strategy 3 Individual Future 4 Underlying Null value: 2 <sup>8</sup> -1
Conditions	Value U (Underlying) is for internal Exchange use only
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Derivatives Market Model

FIELD NAME	DERIVATIVES MARKET MODEL
Description	Type of synthetic quote applied to the contract
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 No Synthetic Quote 1 Spontaneous Implied Matching 2 Event Driven Implied Matching Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Dividend Frequency

FIELD NAME	DIVIDEND FREQUENCY
Description	Indicates how often a dividend is paid by an individual instrument.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Capitalization 2 Monthly 3 Yearly Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## DJCALD

FIELD NAME	DJCALD
Description	Instrument trading date (YYYYMMDD)

FIELD NAME	DJCALD
Format	Text (character)
Length	8
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## DR Source IP Range

FIELD NAME	DR SOURCE IP RANGE
Description	Defines the Disaster Recovery IP address /25 range number (IP v4).
Format	Text (character)
Length	20
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Dynamic Collar Logic

FIELD NAME	DYNAMIC COLLAR LOGIC
Description	For Derivatives, Dynamic Collar Logic is a field used to identify the method of handling orders in case of Trade Price Validation (TPV) being triggered. For Cash, Dynamic Collar Logic is used internally.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Not Active 2 No Halt with Reject ( <i>not in use</i> ) 3 Halt with Acceptation Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## E

## EDSP Tick Size

FIELD NAME	EDSP TICK SIZE
Description	Specific Tick Size value applicable for EDSP. It's calculated using the PriceDecimals.
Format	Price (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Eligible For Margin

FIELD NAME	ELIGIBLE FOR MARGIN
Description	Indicates if the instrument is eligible for margin or not.
Format	Enumerated (unsigned integer 8)

FIELD NAME	ELIGIBLE FOR MARGIN
Length	1
Possible Values	1 Yes 0 No Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>

## EMM

FIELD NAME	EMM
Description	<p>Defines the Exchange Market Mechanism applied on each platform.</p> <p>In the Reject (07) message:</p> <ul style="list-style-type: none"> <li>■ Populated only if provided as a valid value in the corresponding Inbound request AND the corresponding Inbound request was technically correctly formatted; otherwise it is provided at the Null value.</li> <li>■ Not populated for rejection of strategy creation on derivative markets.</li> </ul> <p>In the Mass Cancel (13) message, it is mandatory when Symbol Index is provided and optional when Instrument Group Code is provided.</p>
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Cash and Derivative Central Order Book (COB) 2 NAV Trading Facility 4 Derivative Wholesales 5 Cash On Exchange Off book 6 Euronext off-exchange trade reports 7 Derivative On Exchange Off book 8 ETF MTF - NAV Central Order Book 9 Listed-not traded 15 Delta Neutral Contingency leg 99 Not Applicable (For indices and iNAV) Null value: 2^8-1
Conditions	In TCS messages only possible values are '2' = NAV Trading Facility and '5' = Cash On Exchange Off book. Field not populated in Reject (07) messages for rejection of strategy creation on derivatives markets.
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">CashTickSizeReferentialFile (9020)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## End Validity Date

FIELD NAME	END VALIDITY DATE
Description	<p>For guaranteed instrument, the End Validity Date is the date when the Clearing House triggers the buy-in procedure because of the seller delivery failure.</p> <p>For non-guaranteed instrument, the End Validity Date corresponds to the date when the trade is cancelled by the CSD and cash settlement/compensation is performed according to Euronext Securities rules.</p>
Format	Text(character)
Length	8
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Exchange Code

FIELD NAME	EXCHANGE CODE
Description	Indicates the Market Place.
Format	Enumerated (character)

FIELD NAME	EXCHANGE CODE
Length	1
Possible Values	A Amsterdam Equity Derivatives B Brussels Equity Derivatives C Paris Equity Underlyings D Brussels Cash Underlyings F Brussels Index Derivatives G Amsterdam Cash Underlyings H Lisbon Cash Underlyings J Paris Index Derivatives K Amsterdam Index Derivatives L Oslo Cash Underlying M Lisbon Index Derivatives N Oslo Index Derivatives O Oslo Equity Derivatives P Paris Equity Derivatives R Amsterdam Commodities Derivatives S Lisbon Equity Derivatives Y Paris Commodities Derivatives Z Amsterdam Currency Derivatives
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Exercise Style

FIELD NAME	EXERCISE STYLE
Description	Type of exercise of an instrument
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 European 1 American 2 Asian 3 Bermudan 4 Other 5 Periodic Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Expiry Code

FIELD NAME	EXPIRYCODE
Description	Maturity identifier with format MMMYY
Format	Text
Length	6
Used In	<a href="#">Total Return Futures Parameter files</a>
User For	Derivatives

## Expiry Cycle Type

FIELD NAME	EXPIRY CYCLE TYPE
Description	Defines the expiry cycle type
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Daily 2 Weekly 3 Monthly Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Expiry Settlement Date

FIELD NAME	EXPSETTLDATE
Description	Expiry settlement date ( expiry date plus 2 business days)
Format	Date
Length	17
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Exposition Type

FIELD NAME	EXPOSITION TYPE
Description	Indicates the ETF replication method.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Physical 2 Synthetic 3 Sampling Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## F

## Final Index

FIELD NAME	FINALINDEX
Description	CAC index close of the current day
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## First Settlement Date

FIELD NAME	FIRST SETTLEMENT DATE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Full Instrument Name

FIELD NAME	FULL INSTRUMENT NAME
Description	Full Instrument Name.
Format	Text (character)
Length	102
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Funding Days

FIELD NAME	FUNDINGDAYS
Description	Today's DaySettlDate minus yesterday's DaySettlDate
Format	Numerical
Length	1
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Funding Index

FIELD NAME	FUNDINGINDEX
Description	Funding index of current day (C4FU)
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Funding Rate

FIELD NAME	FUNDINGRATE
Description	Recalibrated EONIA[1] index of the previous business day
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>

User For	Derivatives
----------	-------------

## G

## Guarantee Indicator

FIELD NAME	GUARANTEE INDICATOR
Description	Indicates if the trade is guaranteed or not (for clearing purpose)
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 This instrument is not guaranteed 1 This instrument is guaranteed 2 This instrument is not clearable 8 This instrument is part of Cleared Borrowing and Lending Service (CBLM) and is guaranteed Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## I

## ICB

FIELD NAME	ICB
Description	<i>Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification.</i> This field is not relevant and is currently filled with '0000000000000000'.
Format	Alphanumeric ID (character)
Length	16
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## ICB Code

FIELD NAME	ICB CODE
Description	<i>Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification.</i> This field is not relevant and is currently filled with '00000000'.
Format	Alphanumeric ID (character)
Length	8
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## ICSD

FIELD NAME	ICSD
Description	Indicates if the settlement can be processed through an International CSD (1) or not (0).

FIELD NAME	ICSD
Format	Boolean (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Index

FIELD NAME	INDEX
Description	Index name
Format	Text (character)
Length	30
Used In	<a href="#">Euronext RLP Universe</a>
User For	Cash

## Index Leverage

FIELD NAME	INDEX LEVERAGE
Description	Indicates the multiplier coefficient of an leveraged fund. (To be calculated with RatioDecimal)
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32-2</sup> Null value: 2 <sup>32-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Instrument Business Date

FIELD NAME	INSTBUSDATE
Description	Date of current day
Format	Date
Length	17
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Instrument Category

FIELD NAME	INSTRUMENT CATEGORY
Description	Indicates to which category the instrument belongs.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Equities 2 Fixed Income 3 Warrants And Certificates 6 Trackers 7 Futures 10 Options



FIELD NAME	INSTRUMENT CATEGORY
	11 Indices 12 Euronext Funds Services 14 iNAV (Indicative Net Asset Value) 15 Fund 16 Forex 254 Miscellaneous Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Instrument Code

FIELD NAME	INSTRUMENT TRADING CODE
Description	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.
Format	Alphanumerical ID (character)
Length	12
Used In	<a href="#">Euronext RLP Universe</a>
User For	Cash

## Instrument Event Date

FIELD NAME	INSTRUMENT EVENT DATE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	0..2^16-2 Null value: 2^16-1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Instrument Group Code

FIELD NAME	INSTRUMENT GROUP CODE
Description	Instrument Group / Class Identifier.
Format	Alphanumerical ID (character)
Length	2
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Instrument Name

FIELD NAME	INSTRUMENT NAME
Description	Instrument Name

FIELD NAME	INSTRUMENT NAME
Format	Text (character)
Length	18
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Instrument Trading Code

FIELD NAME	INSTRUMENT TRADING CODE
Description	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.
Format	Alphanumeric ID (character)
Length	15
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Instrument Type

FIELD NAME	INSTRUMENT TYPE
Description	Instrument Type. Represents a group of instruments that are subject to the same issue procedures, general processing, and that give shareholders the same rights with regard to voting, dividends and rights.
Format	Enumerated (character)
Length	4
Possible Values	1 Equities SHRS Shares SBRT Subscription Right DPRP Depository Receipts WNTS Warrant FLXB Flexi Bonds ETFT Exchange Traded Funds MTFU Mutual Funds OTHR Other
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Inst Unit Exp

FIELD NAME	INSTRUMENT UNIT EXPRESSION
Description	Unit in which the instrument is quoted.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Units 2 Percentage of Nominal Excluding Accrued Interest (Clean) 3 Basis Points 5 Percentage of Nominal Including Accrued Interest (Dirty) 7 Yield 8 Kilograms 9 Ounces Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>

FIELD NAME	INSTRUMENT UNIT EXPRESSION
	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## IP Address DR

FIELD NAME	IP ADDRESS DR
Description	IP Address of the Disaster Recovery access to the gateway. Populated only for the Disaster Recovery environment, in the file generated for the Production environment. Blank for all other environments (IP v4).
Format	Text (character) XML: character
Length	XML: 15
Possible Values	XML: Valid IP v4 address
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>

## IP Address Primary

FIELD NAME	IP ADDRESS PRIMARY
Description	IP Address of the Primary and Secondary (backup) access to the gateway. Provided for all environments (IP v4).
Format	Text (character) XML: character
Length	XML: 15
Possible Values	XML: Valid IP v4 address
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>

## ISIN Code

FIELD NAME	ISIN CODE
Description	Instrument ISIN following ISO 6166. Identifier of a product. Combined with MIC and Currency, identifies an instrument traded on a given market using a given currency.
Format	Alphanumeric ID (character)
Length	12
Conditions	For MiFID Declaration Trade Entry (40) message, the Symbol Index or MIC - ISIN - Currency must be specified. If both Symbol Index and MIC - ISIN - Currency are populated, MIC - ISIN - Currency will be ignored and only the Symbol Index will be taken into consideration.
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">PrevDayCapAndVolTradFile (9015)</a>
User For	Cash and Derivatives

## Issue Price

FIELD NAME	ISSUE PRICE
Description	Issuing price of the instrument
Format	Price (signed integer 64)
Length	8

FIELD NAME	ISSUE PRICE
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Issue Price Decimals

FIELD NAME	ISSUE PRICE DECIMALS
Description	Indicates the number of decimals for Issue Price related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Issuer Name

FIELD NAME	ISSUER NAME
Description	Indicates the name of the Legal Issuing Entity.
Format	Text (character)
Length	80
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Issuing Country

FIELD NAME	ISSUING COUNTRY
Description	Issuing country. Provides the ISO 3166 (Alpha 3) code for the country of headquarter company that issued the instrument.
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## L

## Last Adjusted Closing Price

FIELD NAME	LAST ADJUSTED CLOSING PRICE
Description	Last traded price of the previous trading day after application of the adjustment coefficient (to be calculated with the Price/Index Level Decimals). Not provided for European instruments.
Format	Price (signed integer 64)
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1

FIELD NAME	LAST ADJUSTED CLOSING PRICE
	Null value: $-2^{63}$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Last Trading Date

FIELD NAME	LAST TRADING DATE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	$0..2^{16}-2$ Null value: $2^{16}-1$
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Leg Buy Sell

FIELD NAME	LEG BUY OR SELL
Description	Leg Side.
Format	Enumerated (character)
Length	1
Possible Values	B Buy S Sell
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Leg Price

FIELD NAME	LEG PRICE
Description	Price of corresponding strategy leg (to be calculated with the Price/Index Level Decimals).
Format	Price (signed integer 64)
Length	8
Possible Values	$-2^{63}+1..2^{63}-1$ Null value: $-2^{63}$
Conditions	This field is not populated in message Security Definition Request (60) only for the submission of a Delta-neutral strategy.
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Leg Ratio

FIELD NAME	LEG RATIO
Description	Ratio of lots for the leg. For contingent trades, the delta. <ul style="list-style-type: none"> <li>For Contracts (Future or Option), it is the leg ratio, with the maximum value being 99999. If the value submitted by a customer is higher, it will be changed by the system to the maximum value (99999).</li> <li>For Underlyings (Cash or Future), the delta is used with special rules: For the Underlying leg of volatility strategies, this should be the delta represented directly as an integer value of the percentage, without division or decimals (e.g.: a delta of 65% should be represented by 65), with the maximum value being</li> </ul>

FIELD NAME	LEG RATIO
	9999 (9999%). If the value submitted by a customer is higher, it will be changed by the system to the maximum value (9999). For Conversion Reversal Strategies (Type = 'R'), the delta is always set to 100.
Format	Quantity (unsigned integer 32)
Length	4
Possible Values	0..99999
Condition	For New Wholesale Order (64) only populated for strategies
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Leg Symbol Index

FIELD NAME	LEG SYMBOL INDEX
Description	MDG proprietary identification code of the instrument leg for the strategy. This identifier is unique per triplet: MIC, ISIN and currency. Once the instrument is expired its number can be used for a new instrument.
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## LEI Code

FIELD NAME	LEI CODE
Description	LEI (Legal Entity Identifier) Code
Format	Alphanumeric ID (character)
Length	20
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## LFAMINSTR

FIELD NAME	LFAMINSTR
Description	Instrument category description
Format	Text
Length	30
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## Liquid Instrument Indicator

FIELD NAME	LIQUID INSTRUMENT INDICATOR
Description	Indicates whether the instrument is liquid or not, as defined per MiFID II. (0 = Illiquid ; 1 = Liquid)
Format	Boolean (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1

FIELD NAME	LIQUID INSTRUMENT INDICATOR
Used In	<a href="#">CashStandingDataFile (9007)</a>

## Listing Date

FIELD NAME	LISTING DATE
Description	Indicates the listing date of the fund on the Exchange of Reference. Date in an integer on 4 bytes expressed as YYYYMMDD
Format	Date (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Long Mnemonic

FIELD NAME	LONG MNEMONIC
Description	Mnemonic code of the instrument. This field is not populated for every instrument.
Format	Alphanumeric ID (character)
Length	6
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Lot Size

FIELD NAME	LOT SIZE
Description	For Cash and Derivatives, it defines a multiple of the tradable quantity.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Low Price Range

FIELD NAME	LOW PRICE RANGE
Description	This field is used to define a Price Range. Starting from this Price and until the next 'Low Price Range', the associated parameter should be applied (to be calculated with the Price / Index Level Decimals).
Format	Price (signed integer 64)
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## M

## Main Depository

FIELD NAME	MAIN DEPOSITORY
Description	<p>Identifies the default (or main) depository organization of the instrument (between the possible 4 depositories registered) used by priority for the settlement (for example: multi-listed instruments which have several depositories).</p> <p>For Cash Markets this data has to be treated in consideration of the data Depository List used by the clearing house to determine the relevant system for settling trades. Valid values are the same as for "Depository List".</p> <p>Valid values are:</p> <ul style="list-style-type: none"> <li>- '00001' – Euroclear France</li> <li>- '00002' – Euroclear Belgium</li> <li>- '00003' – Euroclear Nederland</li> <li>- '00004' – X/N National Bank of Belgium</li> <li>- '00005' – VIF (non-fungible Belgian instruments)</li> <li>- '00006' – Euroclear Bank</li> <li>- '00008' – Physical</li> <li>- '00010' – Interbolsa</li> <li>- '00000' – No depository organization</li> <li>- 'Nulls' – Not significant</li> </ul>
Format	Alphanumerical ID (character)
Length	5
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Market Model

FIELD NAME	MARKET MODEL
Description	Market Model identifier.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Order Driven 2 Quote Driven 3 IPO 4 Primary Market 5 RFQ 6 Conditional Uncrossing Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Market Of Reference MIC

FIELD NAME	MARKET OF REFERENCE MIC
Description	Indicates the instrument Exchange of Reference by its MIC (Market Identification Code according to ISO 10383) (For Future Use).
Format	Alphanumerical ID (character)
Length	4
Conditions	For Declaration Entry (40) message, it is mandatory when Operation Type = '4' or '6'.



FIELD NAME	MARKET OF REFERENCE MIC
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Maturity Date

FIELD NAME	MATURITY DATE
Description	Maturity Date of the instrument (text formatted as YYYYMMDD). For Derivative instruments populated with the Calendar day of expiry (text formatted as YYYYMMDD). Calendar day may not be an active trading date, the actual last date of trading is indicated in the field Last Trading Date. For repo (repurchase agreement) it represents the inclusive date until which a lending/borrowing contract can be traded.
Format	Text (character)
Length	8
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Maximum Decimals In Quantity

FIELD NAME	MAXIMUM DECIMALS IN QUANTITY
Description	Maximum Decimals In Quantity was introduced for Euronext Fund Services Paris and indicates the maximum of relevant decimal number for trading.
Format	Numerical (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Max Nbr Securities Offered Or Tendered

FIELD NAME	MAX NBR SECURITIES OFFERED OR TENDERED
Description	Total quantity of securities offered (for issuing) or tendered (for tender offer) in the operation.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Max Order Amount Call

FIELD NAME	MAX ORDER AMOUNT CALL
Description	Maximum order amount allowed at order entry during a call phase.
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>

FIELD NAME	MAX ORDER AMOUNT CALL
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Max Order Amount Continuous

FIELD NAME	MAX ORDER AMOUNT CONTINUOUS
Description	Maximum order amount allowed at order entry during a continuous phase.
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Max Order Quantity Call

FIELD NAME	MAX ORDER QUANTITY CALL
Description	Maximum order quantity allowed at order entry during a call phase.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Max Order Quantity Continuous

FIELD NAME	MAX ORDER QUANTITY CONTINUOUS
Description	Maximum order quantity allowed at order entry during a continuous phase.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## MDG Set Of Channels ID

FIELD NAME	MDG SET OF CHANNELS ID
Description	Identifier of an MDG Set Of Channels.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Funds 2 Fixed Income 3 Luxembourg Stock Exchange 4 Warrants and Certificates 5 Equities France

FIELD NAME	MDG SET OF CHANNELS ID
	6 Equities Netherlands 7 Equities Belgium 8 Equities Portugal 9 Equities Dublin 10 Equities Norway 11 Best of Book 12 Fixed Income Nordic ABM 13 Euronext Indices 14 Euronext iNAVs 15 Euronext Dublin Indices 16 Commodity Derivatives 17 Currency Derivatives 18 Equities Italy 19 Trading After Hours Italy 20 Equity Derivatives France 21 Equity Derivatives Netherlands 22 Equity Derivatives Other 23 Index Options France 24 Index Options Netherlands 25 Index Derivatives Other 26 Index Futures France 27 Index Futures Netherlands 29 APA SI Quotes 30 APA Trade Publication 31 Best of Book (BoB) Funds 32 ETF Access 33 Block 34 Forex 39 Funds ETF Italy 45 Global Equity Market Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>

## MDG Set Of Channels Name

FIELD NAME	MDG SET OF CHANNELS NAME
Description	Name of the MDG Set Of Channels.
Format	Text (character)
Length	100
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>

## MIC

FIELD NAME	MIC
Description	Identifies the market to which an instrument belongs by its MIC (Market Identification Code), segment MIC according to ISO 10383. Euronext owns the following MICs: - 'ALXA' – ALTERNEXT AMSTERDAM - 'ALXB' – EURONEXT GROWTH BRUSSELS - 'ALXL' – EURONEXT GROWTH LISBON - 'ALXP' – EURONEXT GROWTH PARIS

FIELD NAME	MIC
	<ul style="list-style-type: none"> <li>- 'ATFX' – ATFUND MTF</li> <li>- 'BGEM' – BORSA ITALIANA GLOBAL EQUITY MARKET</li> <li>- 'EMTF' – EURO MTF</li> <li>- 'ENXB' – EURONEXT - EASY NEXT</li> <li>- 'ENXL' – EURONEXT ACCESS LISBON</li> <li>- 'EXGM' – EURONEXT GROWTH MILAN</li> <li>- 'MIVX' – EURONEXT MIV MILAN</li> <li>- 'MFOX' – EURONEXT - MERCADO DE FUTUROS E OPÇÕES</li> <li>- 'MLXB' – EURONEXT ACCESS BRUSSELS</li> <li>- 'MTAA' – EURONEXT MILAN</li> <li>- 'MTAH' – TRADING AFTER HOURS</li> <li>- 'TNLA' – EURONEXT - TRADED BUT NOT LISTED AMSTERDAM</li> <li>- 'TNLB' – EURONEXT – TRADING FACILITY BRUSSELS</li> <li>- 'VPXB' – EURONEXT - VENTES PUBLIQUES BRUSSELS</li> <li>- 'WQXL' – EURONEXT - MARKET WITHOUT QUOTATIONS LISBON</li> <li>- 'XAMS' – EURONEXT - EURONEXT AMSTERDAM</li> <li>- 'XBRD' – EURONEXT - EURONEXT BRUSSELS - DERIVATIVES</li> <li>- 'XBRU' – EURONEXT - EURONEXT BRUSSELS</li> <li>- 'XEUC' – EURONEXT COM, COMMODITIES FUTURES AND OPTIONS</li> <li>- 'XEUE' – EURONEXT EQF, EQUITIES AND INDICES DERIVATIVES</li> <li>- 'XEUI' – EURONEXT IRF, INTEREST RATE FUTURE AND OPTIONS</li> <li>- 'XLDN' – EURONEXT - EURONEXT LONDON</li> <li>- 'XLIS' – EURONEXT - EURONEXT LISBON</li> <li>- 'XLUX' – LUXEMBOURG STOCK EXCHANGE</li> <li>- 'XMAT' – EURONEXT PARIS MATIF</li> <li>- 'XMLI' – EURONEXT ACCESS PARIS</li> <li>- 'XMON' – EURONEXT PARIS MONEP</li> <li>- 'XOTH' – Others - This MIC is not registered. It is use for testing purpose in both p-EUA and Production.</li> <li>- 'XPAR' – EURONEXT - EURONEXT PARIS</li> <li>- 'XSPM' – EURONEXT STRUCTURED PRODUCTS MTF</li> <li>- 'XOSL' – OSLO BORS ASA</li> <li>- 'MERK' – MERKUR MARKET</li> <li>- 'XOAS' – OSLO AXESS</li> <li>- 'XOAM' – NORDIC ALTERNATIVE BOND MARKET</li> </ul>
Format	Alphanumerical ID (character)
Length	4
Conditions	For MiFID Declaration Trade Entry (40) message, the Symbol Index or MIC - ISIN - Currency must be specified. If both Symbol Index and MIC - ISIN - Currency are populated, MIC - ISIN - Currency will be ignored and only the Symbol Index will be taken into consideration.
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## MIC Exchange Of Reference

FIELD NAME	MIC EXCHANGE OF REFERENCE
Description	Indicates the instrument's Exchange of Reference by its MIC (Market Identification Code according to ISO 10383).
Format	Alphanumerical ID (character)
Length	4
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## MIC List

FIELD NAME	MIC LIST
Description	Identifies the Euronext markets on which an instrument is listed by its MIC (Market Identification Code). For an instrument listed on a single Euronext market, the listing MIC code is the same than "Market Identification Code (MIC) of the listed instrument" For an instrument listed on several Euronext Markets: <ul style="list-style-type: none"> <li>- The first MIC is the same than the "Market Identification Code (MIC) of the listed instrument"</li> <li>- The others MIC indicate the other listing places</li> </ul>
Format	Alphanumerical ID (character)
Length	20
Used In	<a href="#">CashStandingDataFile (9007)</a>

## MIFID II Liquid Flag

FIELD NAME	MIFID II LIQUID FLAG
Description	Defines if a contract is to be considered as liquid under MIFID II Regulation.
Format	Boolean (unsigned integer 8)
Length	1
Possible Values	From 0 to 2 <sup>8</sup> -2
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Minimum Price

FIELD NAME	MINIMUM PRICE
Description	In <b>CashTickSizeReferentialFile</b> (9020) and <b>DerivativesTickSizeFile</b> (9021): Price with '.' as a separator followed by x decimals. In <b>AuthorizedPriceFluctuationFile</b> (9008): Price with '.' as a separator followed by 7 decimals.
Format	Decimals
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">CashTickSizeReferentialFile (9020)</a> <a href="#">DerivativesTickSizeFile (9021)</a> <a href="#">AuthorizedPriceFluctuationFile (9008)</a>
User For	Cash and Derivatives

## MM Protections

FIELD NAME	MM PROTECTIONS
Description	Indicates allowed MM Protection type on the contract.(0: Disabled ; 1: Enabled)
Format	Bitmap (unsigned integer 8)
Length	1
Possible Values	0 Delta 1 Volume Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Mnemonic

FIELD NAME	MNEMONIC
Description	Mnemonic code of the instrument. This field is not populated for every instrument.
Format	Alphanumerical ID (character)
Length	5
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">Euronext RLP Universe</a>
User For	Cash

## Mother Stock ISIN

FIELD NAME	MOTHER STOCK ISIN
Description	ISIN Code of the index underlying of the TRF contract.
Format	Text (character)
Length	12
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Multicast Group IP

FIELD NAME	MULTICAST GROUP IP
Description	Defines the IP number (IP v4).
Format	Text (character)
Length	15
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## N

### Name

FIELD NAME	INSTRUMENT NAME
Description	Instrument Name
Format	Text (character)
Length	30
Used In	<a href="#">Euronext RLP Universe</a>
User For	Cash

## Name Exchange Of Reference

FIELD NAME	NAME EXCHANGE OF REFERENCE
Description	Indicates the instrument's Exchange of Reference by its Name.

FIELD NAME	NAME EXCHANGE OF REFERENCE
Format	Text (character)
Length	50
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## NAV Currency

FIELD NAME	NAV CURRENCY
Description	Code of the NAV currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## NAV Publication Time

FIELD NAME	NAV PUBLICATION TIME
Description	Indicates the official NAV publication time. Time in an integer on 4 bytes expressed as hhmmss
Format	Integer Time in hhmmss (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Nominal Currency

FIELD NAME	NOMINAL CURRENCY
Description	Code of the nominal currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Number Instrument Circulating

FIELD NAME	NUMBER INSTRUMENT CIRCULATING
Description	For stocks: this is the total number of shares issued by the company. For Fix Income: this is the number of Fix Income still to be repaid.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## O

## Observation Period

FIELD NAME	OBSERVATION PERIOD
Description	Period expressed in a number of business days during which prices from Price Reporting Agency are used to compute the EDSP.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16-2</sup> Null value: 2 <sup>16-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Observation Period Elapsed

FIELD NAME	OBSERVATION PERIOD ELAPSED
Description	Number of business days elapsed during the observation period (e.g: '2' means it is the second day of the observation period).
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16-2</sup> Null value: 2 <sup>16-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Official Segment

FIELD NAME	OFFICIAL SEGMENT
Description	Official market segment
Format	Text (character)
Length	70
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Open Interest

FIELD NAME	OPEN INTEREST
Description	Open interest.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>
Used In	<a href="#">OpenInterestFile (9014)</a>
User For	Cash



## Open Interest Date

FIELD NAME	OPEN INTEREST DATE
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16) XML: XML date
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">OpenInterestFile (9014)</a>
User For	Derivatives

## Operation End Date

FIELD NAME	OPERATION END DATE
Description	The last day of an Issuing or Tender Offer operation.
Format	XML date – Format YYYYMMDD
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Operation Start Date

FIELD NAME	OPERATION START DATE
Description	The first day of an Issuing or Tender Offer operation.
Format	XML date – Format YYYYMMDD
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Optiq Segment

FIELD NAME	OPTIQ SEGMENT
Description	An Optiq segment is a universe of instruments sharing common trading properties. Instruments have the flexibility to be moved from one partition to another within an Optiq segment.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Equities 2 Funds 3 Fixed Income 4 Warrants and Certificates 5 Bourse de Luxembourg 6 Financial Options 7 Financial Futures 8 Commodity Derivatives 9 Indices 10 Trade Reporting and Publication

FIELD NAME	OPTIQ SEGMENT
	14 Block 11 Index Derivatives 12 Equity Derivatives 15 Forex 16 ISE Bonds and Funds Feed Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Order Entry Qualifier

FIELD NAME	ORDER ENTRY QUALIFIER
Description	Field indicating the state of the Order Entry for the current market state.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Order Entry/Cancel/Modify Disabled 1 Order Entry/Cancel/Modify Enabled 2 Cancel and Modify Only (Derivatives Only) 3 Cancel Only Null value: 2^8-1
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Order Type Rules

FIELD NAME	ORDER TYPE RULES
Description	Order types supported by the matching engine. <ul style="list-style-type: none"> <li>■ Bit in position 0 – Market: Market orders are available for this instrument (0: No ; 1: Yes)</li> <li>■ Bit in position 1 – Limit: Limit orders are available for this instrument (0: No ; 1: Yes)</li> <li>■ Bit in position 2 - Stop / Stop Loss: Stop and stop loss orders are available for this instrument (0: No ; 1: Yes) - Only for OEG</li> <li>■ Bit in position 3 - Stop Limit: Stop limit orders are available for this instrument (0: No ; 1: Yes) - Only for OEG</li> <li>■ Bit in position 4 - Market on Open (MOO): Market on open orders are available for this instrument (0: No ; 1: Yes)</li> <li>■ Bit in position 5 - Trade at Settlement: Trade at settlement are available for this instrument (0: No ; 1: Yes)</li> </ul>
Format	Bitmap (unsigned integer 16)
Length	2
Possible Values	0 Market 1 Limit 2 Stop / Stop Loss 3 Stop Limit 4 Market on Open (MOO) 5 Trade at Settlement Null value: 2^16-1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## P

## Par Value

FIELD NAME	PAR VALUE
Description	Par Value (also called Nominal value) for Instrument. For Fixed Income it represents the par amount to be repaid at maturity (not including interest revenue) (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Param Name

FIELD NAME	PARAM NAME
Description	<p>Name of a contract parameter. This field provides the type of parameter. The value of the parameter is displayed in field Param Value. Details on parameters are provided below:</p> <ul style="list-style-type: none"> <li>1 – RFCPublication: Boolean (If 0 then RFC is considered as illiquid ; If 1 then RFC is considered as liquid)</li> <li>2 – RFCAlgorithm: Value (Is the RFC Algorithm: 1 – Standard RFC ; 2 – Client Best Execution RFC)</li> <li>3 - RFCMinimumQuantityForInitiator: Quantity (Minimum quantity to submit for RFC as an initiator)</li> <li>4 - RFCMinimumQuantityForReactor: Quantity (Minimum quantity to submit for RFC as a reactor)</li> <li>5 - RFCMaxPickUpPercentageForReactor: Percentage (Maximum percentage of the remaining quantity after price improvement reserved for reactors)</li> <li>6 - RFCValidityPeriod: Milliseconds (Period during which RFC Responses are submitted)</li> <li>7 - AvailableWholesaleTradeType: Bitmap (Bit 0: Large in Scale); (Bit 1: Against Actual); (Bit 2: Exchange for Swaps)</li> <li>8 - ContractLISTradeThreshold: Amount</li> <li>9 – RFCCOBInclusion: Boolean (If 0 then orders from Central Order Book are not part of RFC ; If 1 then orders from Central Order Book are part of RFC)</li> <li>12 - IntradayInstrumentCreationDelay: Number of minutes</li> <li>14 - FSP Cool Down Period: Number of seconds</li> <li>15 - FSP Period: Number of seconds</li> <li>16 - LISPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)</li> <li>17 - AAPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)</li> <li>18 - EFSPPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)</li> <li>19 - WholesaleValidityPeriod: Number of minutes</li> <li>20 - DN Underlying Price Limit Deviation: Absolute Value (Price Variation)</li> <li>21 - CVF: Absolute Value (This field represents the monetary value of a decimal price of 1.0 points)</li> <li>22 – ProRataThreshold: Volume (Minimal volume threshold for the pro rata trading policy)</li> </ul>
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	<ul style="list-style-type: none"> <li>1 RFCPublication</li> <li>3 RFCMinimumQuantityForInitiator</li> <li>4 RFCMinimumQuantityForReactor</li> <li>5 RFCPickUpPerc</li> <li>6 RFCImprovementPeriod</li> <li>7 AvailableWholesaleTradeType</li> <li>8 ContractLISTradeThreshold</li> <li>9 RFCCOBInclusion</li> <li>12 IntradayInstrumentCreationDelay</li> <li>13 FSP Spread</li> <li>14 FSP Cool Down Period</li> <li>15 FSP Period</li> <li>16 LISPriceChecks</li> </ul>

FIELD NAME	PARAM NAME
	17 AAPriceChecks 18 EFSPriceChecks 19 WholesaleValidityPeriod 20 DN Underlying Price Limit Deviation 21 CVF 22 ProRataThreshold Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Param Type Of Expression

FIELD NAME	PARAM TYPE OF EXPRESSION
Description	Parameter Type Of Expression of Contract Parameter Name.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Percentage 2 Tick 3 Absolute Value 4 Bps 5 Bitmap Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Param Value

FIELD NAME	CONTRACT PARAMETER VALUE
Description	Value of a Contract Parameter.
Format	Text (character)
Length	255
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Partition ID

FIELD NAME	PARTITION ID
Description	Identifies uniquely an Optiq partition across all the Exchange partitions.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Partition Type

FIELD NAME	PARTITION TYPE
Description	Indicates the type of Partition, either Order Entry or Drop Copy. Use of Order Entry and Drop Copy gateways require separate and individual setup of the Logical access to each service.
Format	Enumerated (character)
Length	2
Possible Values	OE Order Entry DC Drop Copy
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Pattern ID

FIELD NAME	PATTERN ID
Description	Numerical Pattern identifier available as a characteristic of an instrument in Standing Data file and message, and used in the MDG timetable message.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">TimetableFile (9001)</a>
User or	Cash

## Pattern Type

FIELD NAME	PATTERN TYPE
Description	Indicates whether the instrument is tradeable in continuous mode (Continuous), in auction mode (Fixing) or it is not tradable (Not tradable)
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Fixing 1 Continuous 2 Not tradable Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Phase Id

FIELD NAME	PHASE ID
Description	Indicates the phase of the instrument.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Inaccessible 2 Closed 3 Call 4 Uncrossing 5 Continuous

FIELD NAME	PHASE ID
	7 Continuous Uncrossing (Warrants and Certificates Only) Null value: 2^8-1
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Phase Qualifier

FIELD NAME	PHASE QUALIFIER
Description	<p>Indicates the Phase Qualifier</p> <ul style="list-style-type: none"> <li>■ Bit in position 0 – No Qualifier: indicates that no phase qualifier are applicable (0: No ; 1: Yes) - Deprecated</li> <li>■ Bit in position 1 – Call BBO Only (Cash Only): indicates a call on BBO only phase (0: No ; 1: Yes)</li> <li>■ Bit in position 2 – Trading At Last (Cash Only): indicates a trading at last phase (TaL) phase (0: No ; 1: Yes)</li> <li>■ Bit in position 3 – Random Uncrossing : indicates a random uncrossing phase (0: No ; 1: Yes)</li> <li>■ Bit in position 4 – indicates a Call Phase during which only a specific Trading Firm can send its order(s) to the Trading System (0: No ; 1: Yes)</li> </ul>
Format	Bitmap (unsigned integer 16)
Length	2
Possible Values	0 No Qualifier 1 Call BBO Only (Cash Only) 2 Trading At Last (Cash Only) 3 Random Uncrossing 9 Quoting Period Null value: 2^16-1
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Phase Time

FIELD NAME	PHASE TIME
Description	Time of Phase start.
Format	String (text formatted following ISO 8601: hh:mm:ssZ where Z is for UTC)
Length	9
Possible Values	hh:mm:ssZ
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Pool Factor

FIELD NAME	POOL FACTOR
Description	Allows to calculate how much of the original loans have yet to be repaid.
Format	Numerical ID
Length	8
Possible Values	0..2^32-2
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Port Number

FIELD NAME	PORT NUMBER
Description	Defines the port number.
Format	Numerical (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## PRA ID

FIELD NAME	PRA ID
Description	Identifier of the Price Reporting Agency for a Cash Settled contract.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Preliminary Index

FIELD NAME	PRELIMINARYINDEX
Description	CAC index close of the previous business day
Format	Numerical
Length	1
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Prev Day Capital Traded

FIELD NAME	PREV DAY CAPITAL TRADED
Description	Cumulative capital traded for all trades from previous day on an instrument (to be calculated with the Amount Decimals). Not provided for non-Euronext traded instruments.
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">PrevDayCapAndVolTradFile (9015)</a>
User For	Cash

## Previous NAV

FIELD NAME	PREVIOUS NAV
Description	Indicates the previous official Net Asset Value (to be calculated with the Price/Index Level Decimals).
Format	Price (signed integer 64)

FIELD NAME	PREVIOUS NAV
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Previous Volume Traded

FIELD NAME	PREVIOUS VOLUME TRADED
Description	Number of shares traded (to be calculated with the Quantity Decimals) on this instrument during trading day identified by 'DateOfLastTrade'. Not provided for non-Euronext traded instruments.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">PrevDayCapAndVolTradFile (9015)</a>
User For	Cash

## Price Decimals

FIELD NAME	PRICE / INDEX LEVEL DECIMALS
Description	Indicates the number of decimals for each Price / Index Level related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Price Multiplier

FIELD NAME	PRICE MULTIPLIER
Description	Number of units of the financial instrument that are contained in a trading lot. Price multiplier coefficient for instrument unit price.
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Price Multiplier Decimals

FIELD NAME	PRICE MULTIPLIER DECIMALS
Description	Number of decimals for the field Price Multiplier.
Format	Numerical (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1



FIELD NAME	PRICE MULTIPLIER DECIMALS
Conditions	For Declaration Entry (40) message, it is mandatory when Price Multiplier is provided.
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Pricing Algorithm

FIELD NAME	PRICING ALGORITHM
Description	This field provides the defined pricing algorithm value for a given contract. It is used to identify Total Return Future (TRF) contracts and Market On Close (MOC) contracts. For other contract types the value is set to Standard.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 = Standard 1 = Total Return Future 2 = Market On Close
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Product Business Date

FIELD NAME	PRODBUSDATE
Description	Date and time when the item was created in the production environment Date and time in the following format: YYYYMMDD hh:mm:ss. Where: - 'YYYY' is the year. - 'MM' is the month. - 'DD' is the day. - 'hh' is the hour. - 'mm' is the minute. - 'ss' is the seconds.
Format	Date
Length	17
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Product Code

FIELD NAME	PRODUCT CODE
Description	Physical alphanumeric product code.
Format	Alphanumeric ID (character)
Length	4
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Professional Trading

FIELD NAME	PROFESSIONAL TRADING
Description	Indicates if the instrument can be traded by Professional Member only (1) or not (0).
Format	Boolean (unsigned integer 8)

Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Publication Date Next Tradable NAV

FIELD NAME	PUBLICATION DATE NEXT TRADABLE NAV
Description	Publication Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD.
Format	Date (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32-2</sup> Null value: 2 <sup>32-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Publication Date Time

FIELD NAME	PUBLICATION DATE TIME
Description	<p>Date and time when the transaction was published by a trading venue or Approved Publication Arrangement (APA).</p> <p>Date and time in the following format: YYYY-MM-DDThh:mm:ss.ddddddZ.</p> <p>Where:</p> <ul style="list-style-type: none"> <li>- 'YYYY' is the year.</li> <li>- 'MM' is the month.</li> <li>- 'DD' is the day.</li> <li>- 'T' constant 'T' letter used as separator between YYYY-MM-DD and hh:mm:ss.ddddddZ.</li> <li>- 'hh' is the hour.</li> <li>- 'mm' is the minute.</li> <li>- 'ss.dddddd' is the second and its fraction of a second.</li> <li>- 'Z' constant 'Z' letter that stands for UTC time.</li> </ul>
Format	Text (character)
Length	27
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Publication Time

FIELD NAME	PUBLICATION DATE TIME
Description	<p>Date and time when the file was published</p> <p>Date and time in the following format: YYYYMMDD hh:mm:ss.</p> <p>Where:</p> <ul style="list-style-type: none"> <li>- 'YYYY' is the year.</li> <li>- 'MM' is the month.</li> <li>- 'DD' is the day.</li> <li>- 'hh' is the hour.</li> <li>- 'mm' is the minute.</li> <li>- 'ss' is the seconds.</li> </ul>
Format	Date
Length	17

FIELD NAME	PUBLICATION DATE TIME
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Purge Book Type

FIELD NAME	PURGE BOOK TYPE
Description	Indicates whether Good Till Day and Good Till Cancel orders have been deleted, specifying in such scenario whether on both sides, only in buy or sell side.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 No Purge 2 Purge Both Sides 3 Purge Only Buy Side 4 Purge Only Sell Side
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Q

## Quantity Decimals

FIELD NAME	QUANTITY DECIMALS
Description	Indicates the number of decimals for each Quantity related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Quantity Notation

FIELD NAME	QUANTITY NOTATION
Description	Indication of the type of measurement (e.g. number of units, nominal, monetary value, etc.) in which the transaction is expressed. Possible values: "UNT" - Units "FMT" - Facial Amount "-" - Not Applicable
Format	Text (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## R

## Ratio Decimals

FIELD NAME	RATIO / MULTIPLIER DECIMALS
Description	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8-2</sup> Null value: 2 <sup>8-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Reference Price Origin In Continuous

FIELD NAME	REFERENCE PRICE ORIGIN
Description	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Internal 2 External 3 External BBO 4 Opening Call Price 5 Mid-BBO or Fair Value 6 Fair Value 7 Future Market Price Null value: 2 <sup>8-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Reference Price Origin In Opening Call

FIELD NAME	REFERENCE PRICE ORIGIN
Description	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Internal 2 External 3 External BBO 4 Opening Call Price 5 Mid-BBO or Fair Value 6 Fair Value 7 Future Market Price Null value: 2 <sup>8-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Reference Price Origin In Trading Interruption

FIELD NAME	REFERENCE PRICE ORIGIN
Description	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.
Format	Enumerated (unsigned integer 8)

FIELD NAME	REFERENCE PRICE ORIGIN
Length	1
Possible Values	1 Internal 2 External 3 External BBO 4 Opening Call Price 5 Mid-BBO or Fair Value 6 Fair Value 7 Future Market Price Null value: 2 <sup>8</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Reference Spread

FIELD NAME	REFERENCE SPREAD
Description	Reference Spread.
Format	Numerical (signed integer 64)
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Reference Spread Expression

FIELD NAME	REFERENCE SPREAD EXPRESSION
Description	Units in which Reference Spread is expressed.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Percentage 2 Absolute Null value: 2 <sup>8</sup> -1
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Reference Spread Table ID

FIELD NAME	REFERENCE SPREAD TABLE ID
Description	ID of the Reference Spread Table.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Reference Spread Table Name

FIELD NAME	REFERENCE SPREAD TABLE NAME
Description	Name of the Reference Spread Table.
Format	Text (character)
Length	75
Used In	<a href="#">ReferenceSpreadsFile (9045)</a>
User For	Derivatives

## Repo Indicator

FIELD NAME	REPO INDICATOR
Description	Indicates whether the instrument listed underlies any loan contracts, meaning it has been admitted to the Deferred Settlement system and/or to the lending market.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Instrument neither eligible for the SRD, nor eligible for the Loan and Lending Market 1 Instrument eligible for the SRD and for the Loan and Lending Market 2 Instrument eligible for the SRD long only 3 Instrument eligible for the Loan and Lending Market and for the SRD long only 4 Easy-to-borrow Instrument eligible for the SRD and the for Loan and Lending Market 5 Instrument eligible for the Loan and Lending Market 8 Non significant Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Repo Settlement Price

FIELD NAME	REPO SETTLEMENT PRICE
Description	The settlement price (to be calculated with Price / Index Level Decimals) is a standard price used to value the trade that initiates an instrument lending transaction and to calculate the return price. - If the instrument was listed on day D-1, its settlement price, calculated on day D, will be given by the closing price on D-1, with no adjustment for OST effective as of day D - If the instrument was not listed on day D-1, its settlement price, calculated on day D, will be given by the latest price, adjusted and super-adjusted for Corporate Action effective as of day D-1, but not as of day D.
Format	Price (signed integer 64)
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">RepoSettlementPriceFile (9016)</a>
User For	Cash

## Reuters RIC Code

FIELD NAME	REUTERS RIC CODE
Description	Indicates the Reuters RIC Code.
Format	Alphanumeric ID (character)
Length	24
Used In	<a href="#">CashStandingDataFile (9007)</a>

FIELD NAME	REUTERS RIC CODE
User For	Cash

## S

## Scheduled Event

FIELD NAME	SCHEDULED EVENT
Description	Type of Scheduled Event. Notifies an event that will occur at the Scheduled Event Time.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Cancel Previously Scheduled Event(Cash and Derivatives) 1 Reopening (Cash Only) 3 Resumption of trading (Cash Only) 4 Closed (Derivatives Only) 5 Expiry (Derivatives Only) 6 Wholesale Large in Scale (LiS) trades open extension (Derivatives Only) 7 Wholesale Basis trades open extension (Derivatives Only) 8 Wholesale Against Actuals trades open extension (Derivatives Only) 9 Wholesale Large in Scale (LiS) Package trades open extension (Derivatives Only) 10 Wholesale Exchange For Swaps trades open extension (Derivatives Only) 11 Wholesale Trades Open Extension (Derivatives Only) 12 Suspension (Cash Only) 13 Collars Normal 14 Collars Wide 15 Pre-Expiry 16 Closing Price (Cash Only) Null value: 2^8-1
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Session

FIELD NAME	SESSION
Description	Current market session.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Session 0 1 Session 1 2 Session 2 3 Session 3 4 Session 4 5 Session 5 6 Session 6 7 Session 7 8 Session 8 9 Session 9 Null value: 2^8-1
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Settlement Basis

FIELD NAME	SETTLBASIS
Description	Orderbook settlement price in basis points
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Settlement Clearing Price

FIELD NAME	SETTLCLGPRC
Description	Orderbook settlement price in basis points
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Settlement Currency

FIELD NAME	SETTLEMENT CURRENCY
Description	Code of the currency (ISO 4217-3A).
Format	Alphanumeric ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Settlement Date

FIELD NAME	SETTLEMENT DATE
Description	Settlement Date is the actual day on which transfer of cash or assets is completed and is usually a few days after the trade was done. The number of days between the Trade Date and the Settlement Date depends on the security and the convention in the market on which it was traded.
Format	Text (character)
Length	8
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Settlement Delay

FIELD NAME	SETTLEMENT DELAY
Description	<p>Gives the number of trading days that represents the period between the trade date and the settlement date (delivery and payment) for an instrument to be cleared and settled.</p> <p>This is generally a standard period for Euronext Cash markets.</p> <p>Permitted Values</p> <ul style="list-style-type: none"> <li>- From 0 to 30 (Standard values)</li> <li>- X: This value is assigned for a lot of products and internal management rules shared by Euronext and LCH-</li> </ul>



FIELD NAME	SETTLEMENT DELAY
	Clearnet (D+2). - Z: This value is assigned for Lending/Borrowing instruments. This value is especially interpreted to manage the associated management rules (D+3).
Format	Alphanumeric ID (character)
Length	2
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Settlement Method

FIELD NAME	SETTLEMENT METHOD
Description	Settlement method 'C' = Cash Settlement 'P' = Physical Settlement 'O' = Optional Blank/null for exchanges 'C', 'G', 'D', 'H' containing Underlying instruments
Format	Alphanumeric ID (character)
Length	1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Settlement Spread

FIELD NAME	SETTLEMENT SPREAD
Description	Orderbook settlement price in index points
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## Settlement System

FIELD NAME	SETTLEMENT SYSTEM
Description	Indicates the System where the instrument is settled
Format	Enumerated
Length	2
Possible Values	60 Target 2 Securities 51 Euroclear/Clearstream Lux Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Settlement Tick Size

FIELD NAME	SETTLEMENT TICK SIZE
Description	Default Tick Size value applicable for all Settlement Prices. It's calculated using the PriceDecimals.
Format	Price (unsigned integer 64)
Length	8

FIELD NAME	SETTLEMENT TICK SIZE
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Six Months ADV Exchange Of Ref

FIELD NAME	6 MONTHS ADV EXCHANGE OF REFERENCE
Description	Indicates the 6 months average daily volume (number of shares) traded on the exchange of reference (to be calculated with Quantity Decimals).
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64-2</sup> Null value: 2 <sup>64-1</sup>
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Source IP Range

FIELD NAME	SOURCE IP RANGE
Description	Defines the primary and secondary IP range (IP v4). This IP Range is given to clients to allow these IP in client firewall. It will be the same for a line (A or B) on primary and secondary feed. A range from IP 123.123.123.0 to 25 will be set like this: 123.123.123.0/25.
Format	Text (character)
Length	20
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives

## Start Time Vwap

FIELD NAME	START TIME VWAP
Description	XML additional information: (Text formatted following ISO 8601: hh:mm:ssZ where Z stands for UTC).
Format	Intraday Time in Seconds (unsigned integer 32) XML: XML timeSec
Length	4
Possible Values	0..2 <sup>32-2</sup> Null value: 2 <sup>32-1</sup> Default value: 2 <sup>32-1</sup>
Conditions	For Declaration Entry (40) message, it is mandatory for declarations when Operation Type = '5'.
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Strategy Authorized

FIELD NAME	STRATEGY AUTHORIZED
Description	Provides strategy types authorized for contract. Bit 2, Bit 23, Bit 42 are not used and will always be set to 0.
Format	Bitmap (unsigned integer 64)

FIELD NAME	STRATEGY AUTHORIZED
Length	8
Possible Values	0 Jelly Roll 1 Butterfly 2 Call or Put Cabinet 3 Spread 4 Calendar Spread 5 Diagonal Calendar Spread 6 Guts 7 Two by One Ratio Spread 8 Iron Butterfly 9 Combo 10 Strangle 11 Ladder 12 Strip 13 Straddle Calendar Spread 14 Pack 15 Diagonal Straddle Calendar Spread 16 Simple Inter Commodity Spread 17 Conversion / Reversal 18 Straddle 19 Volatility Trade 20 Condor 21 Box 22 Bundle 23 Reduced Tick Spread 24 Ladder versus Underlying 25 Butterfly versus Underlying 26 Call Spread versus Put versus Underlying 27 Call or Put Spread versus Underlying 28 Call or Put Calendar Spread versus Underlying 29 Call/Put Diagonal Calendar Spread versus Underlying 30 Guts versus Underlying 31 Two by One Call or Put Ratio Spread versus Underlying 32 Iron Butterfly versus Underlying 33 Combo versus Underlying 34 Strangle versus Underlying 35 Exchange for Physical 36 Straddle Calendar Spread versus Underlying 37 Put Spread versus Call versus Underlying 38 Diagonal Straddle Calendar Spread versus Underlying 39 Synthetic 40 Straddle versus Underlying 41 Condor versus Underlying 42 Buy Write 43 Iron Condor versus Underlying 44 Iron Condor 45 Call Spread versus Sell a Put 46 Put Spread versus Sell a Call 47 Put Straddle versus Sell a Call or a Put Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>

## Strategy Code

FIELD NAME	STRATEGY CODE
Description	Exchange-recognized strategy code

FIELD NAME	STRATEGY CODE
Format	Alphanumerical ID (character)
Length	1
Possible Values	A Jelly Roll B Butterfly <i>C Call or Put Cabinet – Deprecated</i> D Spread E Calendar Spread F Diagonal Calendar Spread G Guts H Two by One Ratio Spread I Iron Butterfly J Combo K Strangle L Ladder M Strip N Straddle Calendar Spread O Pack P Diagonal Straddle Calendar Spread Q Simple Inter Commodity Spread R Conversion / Reversal S Straddle V Volatility Trade W Condor X Box Y Bundle <i>Z Reduced Tick Spread - Deprecated</i> a Ladder versus Underlying b Butterfly versus Underlying c Call Spread versus Put versus Underlying d Call or Put Spread versus Underlying e Call or Put Calendar Spread versus Underlying f Call/Put Diagonal Calendar Spread versus Underlying g Guts versus Underlying h Two by One Call or Put Ratio Spread versus Underlying i Iron Butterfly versus Underlying j Combo versus Underlying k Strangle versus Underlying m Exchange for Physical n Straddle Calendar Spread versus Underlying p Put Spread versus Call versus Underlying q Diagonal Straddle Calendar Spread versus Underlying r Synthetic s Straddle versus Underlying t Condor versus Underlying <i>u Buy Write - Deprecated</i> v Iron Condor versus Underlying w Iron Condor x Call Spread versus Sell a Put y Put Spread versus Sell a Call z Put Straddle versus Sell a Call or a Put
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Strike Currency

FIELD NAME	STRIKE CURRENCY
Description	Code of the strike currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Strike Currency Indicator

FIELD NAME	STRIKE CURRENCY INDICATOR
Description	Indicates whether the 'price expression' is in the Currency or in a ratio of this Currency. Use Currency Coefficient field to identify the ratio to apply. This is the case for strike instruments in pennies. The currency will be 'GBP', Strike Currency Indicator sets to '1' and Currency Coefficient set to '0.001'.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Change rate not applied to the strike price 1 Change rate applied to the strike price Null value: $2^8-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Strike Price

FIELD NAME	STRIKE PRICE
Description	The strike price of an option/warrant is the specified price at which the underlying can be bought (in the case of a call/right to buy) or sold (in case of a put/right to sell) by the holder (buyer) of the option/warrant contract, at the moment he exercises his right against a writer (seller) of the option/warrant. Only provided for warrants or other derivatives instruments. To be calculated with Strike Price Decimals for Cash instruments and Price/Index Level Decimals for Derivatives instruments.
Format	Price (signed integer 64)
Length	8
Possible Values	$-2^{63}+1..2^{63}-1$ Null value: $-2^{63}$
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Strike Price Decimals

FIELD NAME	STRIKE PRICE DECIMALS
Description	Indicates the number of decimals for Strike Price related to this Symbol Index
Format	Decimal Places (unsigned integer 8)
Length	1
Possible Values	$0..2^8-2$ Null value: $2^8-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Strike Price Decimals Ratio

FIELD NAME	STRIKE PRICE DECIMALS RATIO
Description	Value used , only for the AMR code, to determine the number of decimals present in the Option contract strike price, as the strike price is disseminated in format of an integer. For example, for AMR code POTO1250404300C, you need to use the AMR Strike Price Decimals Ratio for the Exercise (Strike) Price part of the AMR code as defined in Chapter 4.6.2. In this case it's 04300 and if the AMR Strike Price Decimals Ratio=2, it will result in Strike Price 43.
Format	Numerical (unsigned integer 8)
Length	1
Possible Values	0..2^8-2 Null value: 2^8-1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Symbol Index

FIELD NAME	SYMBOL INDEX
Description	Exchange identification code of the instrument/contract. This identifier is unique per triplet: MIC, ISIN and currency. The correspondence of the Symbol Index and with the instrument characteristics is provided in the standing data messages and associated files. Symbol Index is valid for the life of the instrument.
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2^32-2 Null value: 2^32-1
Conditions	For inbound messages, the Symbol Index must be specified. For second listing place trade, the Symbol Index and the MIC of secondary listing must be specified. If provided in the User Notification (39) message, it specifies the scope of the action specified in User Status. In the Reject (07) message, it is populated only if provided as a valid value in the corresponding Inbound request AND the corresponding Inbound request was technically correctly formatted; otherwise it is provided at the Null value. Field not populated in Reject (07) messages for rejection of strategy creation on derivatives markets. For all messages, with exception of MM sign-in and MM protection, this field represent the Symbol Index of the Instrument. For the MM sign-in and MM protection this field represents the Symbol Index of the Contract. For wholesale order this represents numerical leg instrument identifier (Security ID).
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">OpenInterestFile (9014)</a> <a href="#">PrevDayCapAndVolTradFile (9015)</a> <a href="#">RepoSettlementPriceFile (9016)</a> <a href="#">Total Return Futures Parameter files</a>
User For	Cash and Derivatives

## Synthetic Dividend Index

FIELD NAME	SYNTHETICDIVIDENDINDEX
Description	CAC synthetic dividend index (C4SD) close of the current day
Format	Numerical
Length	8
Used In	<a href="#">Total Return Futures Conversion Parameters files</a>
User For	Derivatives

## T

## Tax Code

FIELD NAME	TAX CODE
Description	Tax deduction code to which the instrument belongs.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Not eligible to PEA 3 Eligible to PEA 9 Not Applicable Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Tech Leaders segment indicator

FIELD NAME	TECH LEADERS SEGMENT INDICATOR
Description	It indicates if the instrument belongs to the Euronext Tech Leader segment (1) or not (0).
Format	Boolean (unsigned integer 8)
Length	1
Possible Values	0..2 <sup>8</sup> -2 Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Threshold LIS Post Trade 120mn

FIELD NAME	THRESHOLD LIS POST TRADE 120MN
Description	Defines the amount of an order to benefit from the LIS Trade Deferred publication to 120 min (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Threshold LIS Post Trade 60mn

FIELD NAME	THRESHOLD LIS POST TRADE 60MN
Description	Defines the amount of an order to benefit from the LIS Trade Deferred publication to 60 min (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Threshold LIS Post Trade EOD

FIELD NAME	THRESHOLD LIS POST TRADE EOD
Description	Defines the amount of an order to benefit from the LIS Trade Deferred publication to EOD (to be calculated with the Amount Decimals).
Format	Amount (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Tick Factor

FIELD NAME	TICK FACTOR
Description	Tick factor applied to update the TickSize for more liquid instruments available in the Tick Table file (to be calculated with Ratio / Multiplier Decimals).
Format	Numerical (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesTickSizeFile (9021)</a>
User For	Derivatives

## Tick Factor Max Period

FIELD NAME	TICK FACTOR MAX PERIOD
Description	Indicator expressed in Month. Instrument whose Time To Expiry are lower than the indicator are impacted by the TickFactor (to be calculated with Ratio / Multiplier Decimals)
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">DerivativesTickSizeFile (9021)</a>
User For	Derivatives

## Tick Size

FIELD NAME	TICK SIZE
Description	XML additional information: Tick size on x characters, with . as a separator
Format	Price (signed integer 64) XML: Decimals
Length	8
Possible Values	-2 <sup>63</sup> +1..2 <sup>63</sup> -1 Null value: -2 <sup>63</sup>
Used In	<a href="#">CashTickSizeReferentialFile (9020)</a> <a href="#">DerivativesTickSizeFile (9021)</a>
User For	Cash and Derivatives



## Tick Size Index ID

FIELD NAME	TICK SIZE INDEX ID
Description	ID of the tick size table available in the Tick Table file.
Format	Numerical ID (unsigned integer 16)
Length	2
Possible Values	0..2 <sup>16</sup> -2 Null value: 2 <sup>16</sup> -1
Used In	<a href="#">CashTickSizeReferentialFile (9020)</a> <a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">DerivativesTickSizeFile (9021)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Tick Table Name

FIELD NAME	TICK TABLE NAME
Description	Name of the tick size table available in the Tick Table file.
Format	Text (character)
Length	75
Used In	<a href="#">DerivativesTickSizeFile (9021)</a>
User For	Derivatives

## TTE range Lower Limit

FIELD NAME	TIME TO EXPIRY
Description	Time to Expiry. Expressed as Months (to be calculated with the Ratio / Multiplier Decimals).
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">Reference Spreads File (9045)</a>
User For	Derivatives

## Total Expense Ratio

FIELD NAME	TOTAL EXPENSE RATIO
Description	Total Expense Ratio (TER): total costs associated with managing and operating a fund.
Format	Numerical (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Trade Reference

FIELD NAME	TRADE REFERENCE
Description	Reference of the trade reported to the Exchange.
Format	Alphanumerical ID (character)
Length	30
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Trading Code

FIELD NAME	TRADING CODE
Description	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.
Format	Alphanumerical ID (character)
Length	12
Used In	<a href="#">Euronext RLP Universe</a>
User For	Cash

## Trading Currency

FIELD NAME	TRADING CURRENCY
Description	Code of the currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Trading Currency Indicator

FIELD NAME	TRADING CURRENCY INDICATOR
Description	Indicates whether the 'price expression' is in the Currency or in a ratio of this Currency. Use Currency Coefficient field to identify the ratio to apply. This is the case for instruments traded in pennies. The currency will be 'GBP', Trading Currency Indicator sets to '1' and Currency Coefficient set to '0.001'.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Change rate not applied to the traded price 1 Change rate applied to the traded price Null value: $2^8-1$
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Trading Date Time

FIELD NAME	TRADING DATE TIME
Description	<p>Date and time when the transaction was executed.</p> <p>Date and time in the following format: YYYY-MM-DDThh:mm:ss.dddZ.</p> <p>Where:</p> <ul style="list-style-type: none"> <li>- 'YYYY' is the year.</li> <li>- 'MM' is the month.</li> <li>- 'DD' is the day.</li> <li>- 'T' constant 'T' letter used as separator between YYYY-MM-DD and hh:mm:ss.dddZ.</li> <li>- 'hh' is the hour.</li> <li>- 'mm' is the minute.</li> <li>- 'ss.dddZ' is the second and its fraction of a second.</li> <li>- 'Z' constant 'Z' letter that stands for UTC time.</li> </ul>
Format	Text (character)
Length	27
Conditions	It indicates the original execution date for a reporting/publication entered.
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Trading Period

FIELD NAME	TRADING PERIOD
Description	Provides the current trading period.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	<p>1 Opening (Cash and Derivatives)</p> <p>2 Standard (Cash and Derivatives)</p> <p>3 Closing (Cash and Derivatives)</p> <p>Null value: 2^8-1</p>
Used In	<a href="#">TimetableFile (9001)</a>
User For	Cash and Derivatives

## Trading Policy

FIELD NAME	TRADING POLICY
Description	Trading Policy enabling to allocate a given incoming volume to orders.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	<p>1 Price Explicit Time</p> <p>2 Price Pro Rata</p> <p>Null value: 2^8-1</p>
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Trading Unit

FIELD NAME	TRADING UNIT
Description	Amount of underlying instrument per unit of a derivative contract (to be calculated with the Quantity Decimals). Due to corporate actions, the value may be different between value provided within this field in Contract Standing Data and Outright Standing Data. Value in Outright Standing Data reflects the adjustment

FIELD NAME	TRADING UNIT
	due to the corporate action and should be used for that Outright instrument.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Transaction Type

FIELD NAME	TRANSACTION TYPE
Description	Transaction type or publication type.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Plain Vanilla Trade 2 Dark Trade 3 Benchmark Trade 4 Technical Trade 5 Give-up/Give-in Trade 6 Ex/Cum dividend Trade 7 Trade With Condition 15 Summary Report Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Transparency Indicator

FIELD NAME	TRANSPARENCY INDICATOR
Description	Used to define the transparency of the trade.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Lit/Regular Trade 1 Dark Trade and Immediate Publication 2 Dark Trade and Deferred Publication Null value: 2 <sup>8</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Type Of Corporate Event

FIELD NAME	TYPE OF CORPORATE EVENT
Description	Indicates the last type of corporate event that has occurred on an instrument, such as detachment of rights, or of coupons. The data item is automatically calculated by the adjustment application but in case of problem or error, the data item value could be modified manually, particularly for purging the order book in case of absence of corporate event. This data has to be treated in consideration of the date of the event included into the header of the message. Valid values are: "00" – No specific event "01" – Dividend payment in cash or in stocks "02" – Interest payment (Fix Income for which the price is not expressed in% of the nominal, only)

FIELD NAME	TYPE OF CORPORATE EVENT
	"04" – Split "05" – Bonus (i.e. attribution) "06" – Subscription "07" – Share allocation "08" – Share swap "09" – Reverse split "10" – Merger "11" – Final Fix Income redemption "12" – Capital amortization "13" – Draw announcement (Belgian Fix Income only) "14" – Block trade of controlling interest "15" – Optional corporate events(dividend option) "16" – Complex corporate event "17" – Purge of the order book (purge is initiated manually in the absence of a corporate event, for example, following the modification of the variable tick of the listed instrument) "22" - Luxembourg Stock Exchange corporate event
Format	Alphanumeric ID (character)
Length	2
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Type Of Market Admission

FIELD NAME	TYPE OF MARKET ADMISSION
Description	Indicates the type of market to which an instrument has been listed.
Format	Enumerated (character)
Length	1
Possible Values	A Instruments traded on the primary market B Instruments traded on the secondary market C Instruments traded on the New Market D Non-regulated market / instruments traded on the free market ('Marche Libre') E Non-regulated market / Alternext F Non listed G Regulated Market / Non equities H Regulated Market / Equities / Segment A I Regulated Market / Equities / Segment B J Regulated Market / Equities / Segment C K Regulated Market / All securities / Special Segment L Regulated Market / Equities / Other instruments S OPCVM, SICOMI non listed (French Investment Funds) 6 Off Market 7 Gold, Currencies, and Indices 9 Foreign
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash



## UMTF

FIELD NAME	UMTF
Description	Indicates the instrument code based on 'Uniform MTF' symbology.
Format	Alphanumerical ID (character)
Length	6
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Underlying Derivatives Instrument Trading Code

FIELD NAME	UNDERLYING DERIVATIVES INSTRUMENT TRADING CODE
Description	Is the underlying of the Derivatives Instrument Trading Code.
Format	Alphanumerical ID (character)
Length	18
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Underlying Expiry

FIELD NAME	UNDERLYING EXPIRY
Description	Expiry Date of the underlying (in number of days since the 1st of January 1970).
Format	Date (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Underlying ISIN Code

FIELD NAME	UNDERLYING ISIN CODE
Description	Underlying ISIN. For Repo: Underlying instrument (instrument used in the loan quotation system) for loan contracts on centralized lending market. For Warrant: Gives the trading code of the underlying listed instrument of a warrant.
Format	Alphanumerical ID (character)
Length	12
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>
User For	Cash and Derivatives

## Underlying MIC

FIELD NAME	UNDERLYING MIC
Description	Identifies the market to which an instrument' underlying belongs by its MIC (Market Identification Code), according to ISO 10383. Refer to MIC field to have all the authorized values.
Format	Alphanumerical ID (character)
Length	4
Used In	<a href="#">DerivativesStandingDataFile (9013)</a> <a href="#">CashStandingDataFile (9007)</a>

## Underlying Mnemonic

FIELD NAME	UNDERLYING MNEMONIC
Description	Mnemonic code of the Instrument' underlying. This field is not populated for every instrument.
Format	Alphanumerical ID (character)
Length	6
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Underlying Name

FIELD NAME	UNDERLYING NAME
Description	Indicates the full name of the instrument's underlying.
Format	Text (character)
Length	102
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Underlying Return Type

FIELD NAME	UNDERLYING RETURN TYPE
Description	Indicates the dividend treatment applied.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Net Total Return 2 Price Return 3 Total Return Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Underlying Segmentation

FIELD NAME	UNDERLYING SEGMENTATION
Description	Indicates the underlying asset segmentation.
Format	Enumerated (unsigned integer 8)
Length	1

FIELD NAME	UNDERLYING SEGMENTATION
Possible Values	1 Equity 2 Fixed Income 3 Mixed 4 Alternative 5 Currency 6 Commodities Null value: 2^8-1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash

## Underlying Subtype

FIELD NAME	UNDERLYING SUBTYPE
Description	<p>Defined the underlying sub-type associated to the underlying type.</p> <ul style="list-style-type: none"> <li>Underlying Type "Stock" accepts following Underlying Subtypes: Basket, Dividend, ETF and Share</li> <li>Underlying Type "Index" accepts: Dividend Index, Equity Index, TRF Index and Volatility Index</li> <li>Underlying Type "Future" accepts: Future on Commodities</li> <li>Underlying Type "Exchange rate" accepts: FX Cross Rates (FXCR), FX Emerging Markets (FXEM) and FX Majors (FXMJ)</li> <li>Underlying Type "Commodity" accepts: Agricultural (AGRI), Environmental (ENVR), Freight (FRGT), Fertilizer (FRTL), Industrial products (INDP), Inflation (INFL), Multi Commodity Exotic (MCEX), Metals (METL), Energy (NRGY), Official economic statistics (OEST), Other C10 (OTHC), Other (OTHR), Paper (PAPR) and Polypropylene (POLY)</li> </ul>
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 Basket 1 Dividend 2 ETF 3 Share 4 Dividend Index 5 Equity Index 6 TRF Index 7 Volatility Index 8 Future On Commodities 9 FXCR - FX Cross Rates 10 FXEM - FX Emerging Markets 11 FXMJ - FX Majors 12 AGRI - Agricultural 13 ENVR - Environmental 14 FRGT - Freight 15 FRTL - Fertilizer 16 INDP - Industrial products 17 INFL - Inflation 18 MCEX - Multi Commodity Exotic 19 METL - Metals 20 NRGY - Energy 21 OEST - Official economic statistics 22 OTHC - Other C10 23 OTHR - Other 24 PAPR - Paper 25 POLY - Polypropylene Null value: 2^8-1



FIELD NAME	UNDERLYING SUBTYPE
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Underlying Symbol Index

FIELD NAME	UNDERLYING SYMBOL INDEX
Description	Identifies the Symbol Index of the underlying of the instrument.
Format	Numerical ID (unsigned integer 32)
Length	4
Possible Values	0..2 <sup>32</sup> -2 Null value: 2 <sup>32</sup> -1
Used In	<a href="#">DerivativesStandingDataFile (9013)</a>
User For	Derivatives

## Underlying Type

FIELD NAME	UNDERLYING TYPE
Description	Defines the instrument type of the underlying.
Format	Enumerated (character)
Length	1
Possible Values	A Basket with Commodity B Basket C Commodity D Depositary Receipt F Future G Currency Leveraged Index H Other I Index J Bonds K Stock Dividend L Leveraged Index N Interest Rate O Other Derivative P Commodity Index Q Commodity Leveraged Index R Right S Stock T Credit U Fund V Currency W Stock Warrant X Exchange Rate Z Security Leveraged Index
Used In	<a href="#">CashStandingDataFile (9007)</a> <a href="#">DerivativesStandingDataFile (9013)</a>
User For	Cash and Derivatives



## Venue

FIELD NAME	VENUE
Description	Identification of the venue where the transaction was executed using the ISO 10383 segment MIC for transactions executed on a trading venue. Otherwise the BIC is sent following ISO 9362. For Approved Publication Arrangement (APA), possible values are: - SINT – Systematic INTERNALizer (This is not a tag in ISO) - XOFF – OFF-EXCHANGE TRANSACTIONS - LISTED INSTRUMENTS.
Format	Alphanumerical ID (character)
Length	11
Used In	<a href="#">CashStandingDataFile (9007)</a>

## Vwap Period

FIELD NAME	VWAP PERIOD
Description	Indicates the number of seconds that should be considered to select the trades which will be used to compute the closing price for a given instrument, when the closing price type is VWAP.
Format	Time (unsigned integer 64)
Length	8
Possible Values	0..2 <sup>64</sup> -2 Null value: 2 <sup>64</sup> -1
Used In	<a href="#">CashStandingDataFile (9007)</a>
User For	Cash



## YVAL

FIELD NAME	YVAL
Description	Instrument type/processing category
Format	Text
Length	3
Possible Values	019 Fungible treasury bonds 021 convertible bonds 026 serial bonds 033 bonds with EX warrants 041 ordinary shares 048 allocation rights 049 subscription rights 050 preferred shares 068 Index 069 units 080 founder shares 111 convertible subordinated securities 162 debt investment fund units 248 Warrants on Shares 255 Euro Medium Term Notes

FIELD NAME	YVAL
	257 Certificates 261 Indexed Euro Medium Term Notes 266 Medium Term Notes 281 mortgage-backed bonds 303 warrants with knock-out barrier 304 certificates of deposit 307 ETV
Used In	<a href="#">MBR_FAMINSTR</a>
User For	Cash

## APPENDIX A: DOCUMENT HISTORY TABLE

Version No	Date	Author	Change Description
1.1.0	29 Sep 2016	IT Solutions	First Version for Optiq (Phase 1)
1.2.0	4 Jan 2017	IT Solutions	First update for Phase 1
1.3.0	27 Jan 2017	IT Solutions	Second update for Phase 1
1.4.0	15 Mar 2017	IT Solutions	Third update for Phase 1
1.4.1	15 May 2017	IT Solutions	Minor Update for Phase 1
2.0.0	11 Oct 2017	IT Solutions	Major update for go live of Cash markets on Optiq (Phase 2)
2.0.1	13 July 2018	IT Solutions	Minor update with clarifications and update for ICB
2.0.2	13 Sep 2018	IT Solutions	Update for Equities Dublin
2.0.3	8 Oct 2018	IT Solutions	Update with clarifications
2.3.0	29 Nov 2018	IT Solutions	Minor update for Euronext Block
2.3.0	29 Nov 2018	IT Solutions	Update for ETF Access
2.3.1	14 Dec 2018	IT Solutions	Update with clarifications
2.5.0	21 Jan 2019	IT Solutions	Minor update
2.6.0	21 Jan 2019	IT Solutions	Minor update for Euronext Block
3.0.0	29 Apr 2019	IT Solutions	Major update for the migration of the Derivatives Market to Optiq (Phase 3)
3.0.1	13 May 2019	IT Solutions	Minor update for Phase 3
3.1.0	6 Sep 2019	IT Solutions - WMA	Second update for migration of Derivatives markets to Optiq (Phase 3)
3.1.2	28 Feb 2020	IT Solutions - IZE	Add new exchange codes to be used for Oslo Market Place and new channels and add the new optiq segment IS Bonds and Funds Feed
3.1.3	16 Mar 2020	IT Solutions - IZE	Add Oslo MICs, update the file list to segment IBF and add document improvements.
4.0.0	30 Mar 2020	IT Solutions - IZE	Remove Financial Derivatives Optiq segment from the document and perform general document improvements.
4.0.1	13 May 2020	IT Solutions – WMA	Minor update to remove SBE Version in the documentation
4.2.0	13 May 2020	IT Solutions – FBO	Integration of Oslo Fixed Incomes: <ul style="list-style-type: none"> <li>■ New value for Instrument Unit Exp: 7 = Yield</li> <li>■ New field Non Anonymous in <a href="#">CashStandingData (9007)</a>.</li> </ul>
4.2.1	30 Jun 2020	IT Solutions – WMA	Minor update on Non-Anonymous field.
4.3.0	25 Sep 2020	IT Market Services – WMA	Minor update for field Phase Time
4.4.0	2 Nov 2020	IT Market Services – WMA	Introduction of SBE 304 – no impacts
4.5.0	4 Jan 2021	IT Market Services – FNS	Introduction of SBE 305 – no impacts
4.6.0	8 Feb 2021	IT Market Services – WMA	Introduction of SBE 306 – no impacts
4.6.1	12 May 2021	IT Market Services – WMA	New fields for Cash Settled contracts

Version No	Date	Author	Change Description
4.7.0	15 July 2021	IT Market Services – SNM / KZ	<p>Inclusion of SBE 307 – no impacts</p> <p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ Add a new MDG Set of Channels ID to be used for Fastmatch (Forex:34)</li> <li>■ Param Name field update for RFCValidityPeriod in milliseconds instead of seconds</li> </ul>
4.10.0	6 Oct 2021	IT Market Services – SNM / KZ / FBO	<p>Introduction of SBE 310.</p> <p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ Addition of two new fields Max Order Quantity Call and Max Order Quantity Continuous to ContractEMMProperties repeating section of DerivativesStandingDataFile (9013)</li> <li>■ Adding a new value 16 Forex on the instrument category field</li> <li>■ In 1.1 Introduction : Added a reference on UK DRSP regulatory framework governing.</li> <li>■ In 3.2 Cash Standing Data File (9007): add a note regarding the scope of contents: For Forex segment, fields are by default filled-in (as they are mandatory) but no snapshot is provided through MDG. Standing Data is only available via EFS.</li> </ul>
4.11.0	24 Nov 2021	IT Market Services – WMA	Introduction of SBE 311 – no impacts
4.12.0	24 Dec 2021	IT Market Services – WMA	Introduction of SBE 312 – no impacts
4.13.0	21 Jan 2022	IT Market Services – FNS	<p>Introduction of SBE 313</p> <p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ Addition of a new section 1.6 Future Use</li> <li>■ Addition of new values to the Closing Price Type and Scheduled Event fields</li> <li>■ Addition of a new field(VWAP Period) to the CashStandingDataFile</li> </ul>

Version No	Date	Author	Change Description
5.16.0	1 Jun 2022	IT Market Services – WMA	<p>Introduction of SBE 316</p> <p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">Feed Configuration</a>: MDG Set of Channels 18, 19, 39, 45 added</li> <li>■ In <a href="#">CashStandingDataFile (9007)</a>: <ul style="list-style-type: none"> <li>- Fields added in <b>StandingDataUnitary</b> section: <i>Long Mnemonic, Official Segment, Settlement System, Pattern Type, Professional Trading, Exercise Style, Underlying Mnemonic, Underlying Name, Underlying Type, Settlement Currency, Tech Leaders segment indicator</i></li> <li>- Fields added in <b>EMMPattern</b> section: <i>Dynamic APF Table ID, Static APF Table ID, Order Price Control APF Table ID</i></li> </ul> </li> <li>■ In <a href="#">Timetable (9001)</a>: Description updated</li> <li>■ Section <a href="#">AuthorizedPriceFluctuationFile (9008)</a> added</li> <li>■ In <a href="#">Field Description</a>:: <ul style="list-style-type: none"> <li>- Field description updated for: <a href="#">Phase Qualifier</a></li> <li>- Fields added: <a href="#">APF Index ID</a>, <a href="#">Authorized Price Fluctuation</a>, <a href="#">Authorized Price Fluctuation Type</a>, <a href="#">Long Mnemonic</a>, <a href="#">Minimum Price</a>, <a href="#">Official Segment</a>, <a href="#">Pattern Type</a>, <a href="#">Professional Trading</a>, <a href="#">Settlement Currency</a>, <a href="#">Settlement System</a>, <a href="#">Tech Leaders segment indicator</a>, <a href="#">Underlying Mnemonic</a></li> <li>- Value added in field <a href="#">Exercise Style</a>: "5" (Periodic);</li> <li>- Values added in <a href="#">MDG Set Of Channels ID</a>: "18" (Equities Italy), "19" (Equities TAH Italy), "39" (Funds ETFplus Italy), "45" (Equities GEM Italy);</li> <li>- Values added in field <a href="#">Underlying Type</a>: "A" (Basket with Commodity), "B" (Basket), "D" (Depository Receipt), "G" (Currency Leveraged Index), "H" (Other), "J" (Bonds), "K" (Stock Dividend), "L" (Leverage Index), "N" (Interest Rate), "O" (Other Derivative), "P" (Commodity Index), "Q" (Commodity Leveraged Index), "R" (Right), "T" (Credit), "U" (Fund), "V" (Currency), "W" (Stock Warrant), "Z" (Security Leveraged Index)</li> </ul> </li> </ul>
5.17.0	1 Aug 2022	IT Market Services – LNA – COL – WMA	<p>Introduction of SBE 317 and new Common File Transfer System (CFTS) platform, Optiq referential files can be assessed through the CFTS Referential Data Service using SFTP with SSH key authentication.</p> <p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">CashStandingDataFile (9007)</a>: <ul style="list-style-type: none"> <li>- Fields added in <b>StandingDataUnitary</b> section: <i>Settlement Date End Validity Date</i></li> </ul> </li> <li>■ Section added: <a href="#">Euronext RLP Universe File</a> as part of CFTS</li> <li>■ Section added: <a href="#">Members Family Instruments</a> as part of CFTS</li> <li>■ Section added: <a href="#">Total Return Futures Conversion</a> Parameters (was in a dedicated specification – no changes in contents)</li> <li>■ In <a href="#">Field Description</a>: <ul style="list-style-type: none"> <li>- Fields added: <a href="#">Settlement Date</a>, <a href="#">End Validity Date</a></li> </ul> </li> </ul>

Version No	Date	Author	Change Description
5.18.0	15 Sep 2022	IT Market Services – LME – FSE – COL – WMA	<p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">CashStandingDataFile (9007)</a>: <ul style="list-style-type: none"> <li>- Fields added in <b>StandingDataUnitary</b> section: <i>Max Order Amount Call</i>, <i>Max Order Amount Continuous</i>, <i>Max Order Quantity Call</i>, <i>Max Order Quantity Continuous</i>, <i>Pool Factor</i>, <i>Purge Book Type</i></li> </ul> </li> <li>■ In <a href="#">CashTickSizeReferentialFile (9020)</a>: <ul style="list-style-type: none"> <li>- Description updated to clarify the current behaviour (no changes)</li> </ul> </li> <li>■ In <a href="#">Euronext RLP Universe File</a>: <ul style="list-style-type: none"> <li>- Filename prefix changed from "OptiqMDG" to "IDSCash"</li> </ul> </li> <li>■ In <a href="#">Members Family Instruments</a>: <ul style="list-style-type: none"> <li>- Filename prefix changed from "OptiqMDG" to "IDSCash"</li> </ul> </li> <li>■ In <a href="#">Field Description</a>: <ul style="list-style-type: none"> <li>- Fields added: <i>Max Order Amount Call</i>, <i>Max Order Amount Continuous</i>, <i>Pool Factor</i>, <i>Purge Book Type</i></li> <li>- Value added for field <i>Closing Price Type</i>: "9" (Last Adjusted Closing Price)</li> <li>- Description updated for fields <i>Max Order Quantity Call</i> and <i>Max Order Quantity Continuous</i>: are also used for Cash</li> <li>- Field <i>MDG Set of Channels ID</i>: adjustment of naming for values "19", "39", "45"</li> </ul> </li> </ul>
5.18.1	30 Sep 2022	IT Market Services – WMA – FSE	<p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">Field Description</a>: <ul style="list-style-type: none"> <li>- Description updated for fields: <i>Authorized Price Fluctuation</i>, <i>Minimum Price</i></li> </ul> </li> </ul>
5.19.0	24 Oct 2022	IT Market Services – IMI – WMA	<p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">CashStandingDataFile (9007)</a>: <ul style="list-style-type: none"> <li>- Fields added: <i>OperationStartDate</i>, <i>OperationEndDate</i> and <i>MaxNbrSecuritiesOfferedOrTendered</i></li> </ul> </li> <li>■ In <a href="#">OpenInterestFile (9014)</a>: description updated</li> <li>■ In <a href="#">Field Description</a>: <ul style="list-style-type: none"> <li>- Value added for field <i>Closing Price Type</i>: '8' (VWAP – Closing Price of Reference Market)</li> <li>- Value added for field <i>MIC</i>: 'MTAH' (TRADING AFTER HOURS)</li> <li>- Value added for field <i>Phase Qualifier</i>: Bit '9' (Quoting Period)</li> <li>- Fields added: <i>Max Nbr Securities Offered Or Tendered</i>, <i>Operation End Date</i> and <i>Operation Start Date</i>.</li> </ul> </li> </ul>
5.20.0	14 Nov 2022	WMA	<p>The following changes have been made to this version of the document:</p> <ul style="list-style-type: none"> <li>■ In <a href="#">Field Description</a>: <ul style="list-style-type: none"> <li>- Value added for field <i>MIC</i>: 'ATFX' (ATFUND MTF)</li> </ul> </li> </ul>