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EURONEXT MARKETS - OPTIQ® FILE SPECIFICATIONS

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PREFACE

About This Document

The purpose of this document is to describe all the file specifications required for trading on Optiq[®].

Target audience

This document must 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		
Euronext Ca	sh Market			
Equities	1	~		
Funds FND	2	1		
Fixed Income FXI	3	1		
Warrants and Certificates SP	4	1		
Block BLK	14	1		
Irish Bonds and Funds IBF	16	1		
Euronext Deriva	atives Market	1		
Commodity Derivatives CMO	8	1		
Index Derivatives IDD	11	~		
Equity Derivatives EQD	12	✓		
Euronext	Indices	•		
Indices Indices	9	1		
Euronext Approved Publication Arrangement (APA) Facility				
Trade Reporting and Publication TRP	10	1		
Other Markets				
Luxembourg Stock Exchange BDL	5	1		
	1	1		

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Preface

Euronext Markets - Optiq[®] File Specifications

Associated Documents

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

- Euronext Markets OEG Client Specifications FIX 5.0 Interface
- Euronext Cash Markets Optiq Kinematics Specifications
- Euronext Derivatives Markets Optiq Kinematics Specifications
- Euronext Markets Optiq & TCS Error List file (.csv)
- Euronext Markets Optiq MDG Client Specifications
- Euronext Markets Optiq File Specifications
- Optiq Technical Note SBE
- Euronext Markets Optiq OEG Connectivity Specifications

Clients are additionally advised to also refer to the Euronext Rules and Regulations documents for more details.

For the latest version of documentation please visit the <u>IT Documentation page</u>.

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What's New?

The following lists only the most recent modifications made to this version of the document. For the complete document history table, please see the <u>Document History in appendix</u>.

Version Number	Change Description
<u>4.6.1</u>	The following changes have been made to this version of the document:
	In DerivativesStandingDataFile (9013):
	- Added field PRA ID in ContractStandingDataUnitary section
	- Added fields Observation Period and Observation Period Elapsed in OutrightStandingDataUnitary section
	In Field Description:
	- Added fields PRA ID, Observation Period and Observation Period Elapsed

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1. EURONEXT OPTIQ MARKET DATA GATEWAY SOLUTION

1.1 INTRODUCTION

This document details the Referential Data HTTPS 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.

1.2 ACCESS TO FILE SERVER

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



Access to EFS for EUA and Production environment 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.

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

The details of the HTTPS protocol server can be found in Euronext File Service User Guide.

Below is the description of the folder structure that contains files provided on EFS for 5 rolling trading days:

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Euronext Optiq Market Data Gateway Solution Access to File Server

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

- CashTickSizeReferentialFile¹

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

- SBETemplates (for MDG and OEG)
- CashStandingDataFile
- CashTickSizeReferentialFile
- DerivativesStandingDataFile
- DerivativesTickSizeFile
- OpenInterestFile
- ReferenceSpreadsFile
- PrevDayCapAndVolTradeFile
- TimetableFile
- RepoSettlementPriceFile
- TRF Conversion Parameters File²

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

Files		Optiq Segment									
	EQ	FND	FXI	SP	EQD	IDD	СМО	BLK	Indices	IBF	TRP
SBETemplates (for MDG and OEG)	✓	✓	✓	 Image: A set of the set of the	~	✓	✓	✓	✓	~	✓
CashStandingDataFile	~	 Image: A set of the set of the	✓	~	-	-	-	✓	~	-	-
CashTickSizeReferentialFile	-	-	-	-	~	✓	~	-	-	-	-
DerivativesStandingDataFile	-	-	-	-	~	✓	~	-	-	-	-
DerivativesTickSizeFile	-	-	-	-	~	✓	 Image: A set of the set of the	-	-	-	-
OpenInterestFile	-	-	-	-	\checkmark	\checkmark	 Image: A second s	-	-	-	-
ReferenceSpreadsFile	-	-	-	-	~	✓	~	-	-	-	-
PrevDayCapAndVolTradeFile	~	 Image: A set of the set of the	✓	~	-	-	-	✓	-	-	-
TimetableFile	 Image: A set of the set of the	 Image: A set of the set of the	 Image: A set of the set of the	~	~	✓	 Image: A set of the set of the	~	-	-	-
RepoSettlementPriceFile	✓	-	-	-	-	-	-	-	-	-	-
TRF Conversion Parameters File	-	-	-	-	-	 Image: A second s	-	-	-	-	-

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¹ The CashTickSizeReferentialFile is currently provided under (1) Environment, and (2) individual OptiqSegment folders for Derivatives ² Currently the TRF Conversion parameters files are described in a dedicated specifications document

Euronext Optiq Market Data Gateway Solution File Naming Convention

1.3 FILE NAMING CONVENTION

The files available on EFS are of different 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 file provided in this manner is:

- CashTickSizeReferentialFile

<u>Example</u> of the Cash Tick Size Referential File generated in Production on the 1st of June 2017: **OptiqMDG_Production_CashTickSizeReferentialFile_ALL_20170601.xml**.

And it will be located in:

- OptiqMDG
- ^L Production
 - ^L Current ^L 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:

- OptigGateway is 'OptigMDG', for MDG files or 'OptigOEG', 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
- DerivativesStandingDataFile
- DerivativesTickSizeFile
- OpenInterestFile
- ReferenceSpreadsFile
- PrevDayCapAndVolTradeFile
- TimetableFile
- RepoSettlementPriceFile

Euronext Optiq Market Data Gateway Solution Server Availability

- TRF Conversion Parameters File³

Example of the Open Interest File generated in Production on 1st of June 2017, on the 'Commodities' Optiq Segment: **OptiqMDG_Production_OpenInterest_Commodities_20170601.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 is made available on the sever. 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.

³ The TRF Conversion Parameters files are provided for Start of Day (SOD) and End of Day (EOD) processing. For the naming convention used for this please refer to the dedicated TRF file specifications document.

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File Overview Functional Format Fields

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
Alphanumerical 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 "Alphanumerical ID" and "Text" fields are alphanumeric based on UTF-8.

Technical Format	Description
character	Alphanumerical 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

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File Overview Date convention

Technical Format	Description
unsigned integer 32	4 bytes unsigned numerical field
unsigned integer 64	8 bytes unsigned numerical field
XML date	Date displayed in YYYMMDD 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:mmmμμnnnZ where "mmm" indicate the milliseconds "μμμ" indicate the microseconds "nnn" indicate the nanoseconds Z = UTC
XML text50	Alphanumerical 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 1st (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:mmmμμμnnnZ

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

Euronext Markets - Optiq® File Specifications	File Overview
	Feed Configuration

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					
MDGSetOfChannelsID		MDGSetOfChannelsID	Identifier of an MDG Set Of Channels.	unsigned integer 16	2	From 0 to 65534
	MDGSetOfChannelsNa me		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)

Possible values for MDGSetOfChannelsID:

MDG Set Of Channels ID	MDG Set Of Channels Name
1	Funds
2	Fixed Income
3	Bourse De Luxembourg
4	Warrants and Certificates
5	Equities France
6	Equities Netherlands
7	Equities Belgium
8	Equities Portugal
9	Equities Dublin
10	Equities Norway
11	Best of Book (BoB)
12	Fixed Income Nordic ABM
13	Euronext Indices
14	Euronext iNAVs
15	Euronext Dublin Indices
16	Commodity Derivatives
17	Currency Derivatives
20	Equity Derivatives France
21	Equity Derivatives Netherlands

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File Overview Feed Configuration

		Feed Conji
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	Euronext Block	1

At 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 Markets – Optiq OEG Connectivity Specifications* 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.

OfChanne	ls					
MDGS	SetOfChannelsID	OfChannelsID Identifier of an MDG Set Of Channels.		2	2 From 0 to 65534	
MDGS	SetOfChannelsName	Name of the MDG Set Of Channels.	string	100	(See field description)	
Chann	nels					
Ch	annelType	Defines the channel.	string	4	(See field description)	
M	ulticastDataRealTime					
	<u>ChannelID</u>	Identifies the channel.	unsigned integer 16	2	From 0 to 65534	
	<u>ChannelSpeed</u>	Defines the Channel bandwidth.	string	4	100M100MbpsChannel1G1G1Gbps10G10GbpsChannel10Gbps	
	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	
	MulticastA					
	SourcelPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)	

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File Overview ed Configuration

s - Optiq® File Specific	rations			
DRSourcelPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
MulticastGroupl P	Defines the IP number (IP v4).	string	15	(See field description)
PortNumber	Defines the port number.	unsigned integer 16	2	From 0 to 65534
MulticastA				
AulticastB				
SourceIPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
DRSourceIPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
MulticastGroupl P	Defines the IP number (IP v4).	string	15	(See field description)
<u>PortNumber</u>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
MulticastB				
lticastDataRealTim				
icast Data Snapshot				
<u>hannelID</u>	Identifies the channel.	unsigned integer 16	2	From 0 to 65534
<u>ChannelSpeed</u>	Defines the Channel bandwidth.	string	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
<u>artitionID</u>	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2
/ulticastA				
SourceIPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
DRSourceIPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
MulticastGroupI P	Defines the IP number (IP v4).	string	15	(See field description)
PortNumber	Defines the port number.	unsigned integer 16	2	From 0 to 65534
MulticastA				
AulticastB				
SourcelPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)

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Euronext Ma	arkets	- Optiq® File Specific	ations			Der	File Overview ivatives parameters
		DRSourceIPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description) (See field description)	
		<u>MulticastGroupl</u> <u>P</u>	Defines the IP number (IP v4).	string	15	(See field description) (See field description)	
		PortNumber	Defines the port number.	unsigned integer 16	2	From 0 to 65534	
	/\	AulticastB					
	/Mult t	icast Data Snapsho					
/Ch	hannel	s					
/SetOfCha	nnels						

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				0254	Optional
EMM	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
Param Name	Name of a Contract parameter.	Enumerated	1	(See field description)	Optional
Param Value	Value of a Contract Parameter.	Text	255		Optional
Param Type Of Expression	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
 - Absolut 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.

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File Overview Price, Quantity, Ratio and Amount Decimals

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:

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

<u>For example</u>, 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.

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

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 "<u>Quantity Decimals</u>"
- All prices with "Price Decimals" (Where the field name is Price / Index Level Decimals)
- All amounts with "<u>Amount Decimals</u>"

Euronext Markets - Optiq[®] File Specifications

File Description SBE Template Files

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 Markets – Optiq MDG Client Specifications.

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 Cash Standing Data file provides referential data for cash markets.

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

CashStandingDataFile

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

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File Description CashStandingDataFile (9007)

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.
- Intraday updates: This file will be updated overnight.

Field	Short Description	Format	Len	Values	Presence
CashStandingDataFile					
StandingDataUnitary					
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory
Optiq Segment	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
Full Instrument Name	Full Instrument Name.	Text	102	(See field description)	Optional
Instrument Name	Instrument Name	Text	18	(See field description)	Mandatory
Instrument Trading Code	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
Instrument Group Code	Instrument Group / Class Identifier.	Alphanumerical ID	2	(See field description)	Mandatory
ISIN Code	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory
Price Decimals	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	02^8-2	Mandatory
Quantity Decimals	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Amount Decimals	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Ratio Decimals	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	02^8-2	Mandatory
CFI	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Mandatory

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File Description CashStandingDataFile (9007)

				Cash.	StandingDataFile (900
Field	Short Description	Format	Len	Values	Presence
Instrument Event Date	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	2	02^16-2	Mandatory
Strike Price	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
Dark Eligibility	Indicates the Eligibility to dark. 0 is not eligible, 1 is eligible.	Boolean	1	02^8-2	Optional
Dark LIS Threshold	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	02^64-2	Optional
Dark Min Quantity	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	02^32-2	Optional
Date Of Last Trade	Date of the Last Price for the Instrument	Date	2	02^16-2	Optional
Depositary List	Identifies the possible main depository organizations (maximum four) for shares or fixed income.	Text	20	(See field description)	Optional
Main Depositary	Identifies the default (or main) depository organization of the instrument (between the possible 4 depositaries registered) used by priority for the settlement (for example: multi-listed instruments which have several depositories).	Alphanumerical ID	5	(See field description)	Optional
First Settlement Date	Represents the first possible settlement date for a given instrument.	Date	2	02^16-2	Optional
Guarantee Indicator	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
ICB	Not relevant	Alphanumerical ID	16	(See field description)	Optional

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Field	Short Description	Format	Len	Values	Presence
Issuing Country	Issuing country.	Alphanumerical	3	(See field description)	Optional
Last Adjusted Closing Price	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
Lot Size	Not Used	Quantity	8	Not Used	Optional
Maturity Date	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Optional
Maximum Decimals In Quantity	Maximum Decimals In Quantity was introduced for Euronext Fund Services Paris and indicates the maximum of relevant decimal number for trading.	Numerical	1	02^8-2	Optional
MIC	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
MIC List	Identifies the Euronext markets on which an instrument is listed by its MIC (Market Identification Code).	Alphanumerical ID	20	(See field description)	Optional
Country Of Exchange	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumerical ID	3	(See field description)	Optional
Mnemonic	Mnemonic code of the instrument. This field is not populated for every instrument.	Alphanumerical ID	5	(See field description)	Optional
Underlying MIC	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
Underlying ISIN Code	Underlying ISIN.	Alphanumerical ID	12	(See field description)	Optional
Trading Currency	Code of the currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional
Currency Coefficient	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	02^32-2	Optional
Trading Currency Indicator	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

File Description CashStandingDataFile (9007)

CashStandingDataFile (900					
Field	Short Description	Format	Len	Values	Presence
Strike Currency Indicator	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
Number Instrument Circulating	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	02^64-2	Optional
Par Value	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	02^64-2	Optional
Quantity Notation	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
Inst Unit Exp	Not Used	Text	3	Not Used	Optional
Settlement Delay	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
Strike Currency	Code of the strike currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional
Tax Code	Tax deduction code to which the instrument belongs.	Enumerated	1	 Not eligible to PEA Eligible to PEA Not Applicable 	Optional
Type Of Corporate Event	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
Type Of Market Admission	Indicates the type of market to which an instrument has been listed.	Enumerated	1	(See field description)	Optional
Repo Indicator	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
Issue Price	Issuing price of the instrument	Price	8	From -2^63+1 to 2^63-1	Optional
Nominal Currency	Code of the nominal currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional

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File Description andinaDataFile (9007)

ield	Short Description	Format	Len	Values	Presence
Issue Price Decimals	Indicates the number of decimals for Issue Price related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Strike Price Decimals	Indicates the number of decimals for Strike Price related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Liquid Instrument Indicator	Indicates whether the instrument is liquid or not, as defined per MiFID II. (0 = Illiquid ; 1 = Liquid)	Boolean	1	02^8-2	Optional
Market Of Reference MIC	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
ICB Code	Not relevant.	Alphanumerical ID	8	(See field description)	Optional
Threshold LIS Post Trade 60mn	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	02^64-2	Optional
Threshold LIS Post Trade 120mn	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	02^64-2	Optional
Threshold LIS Post Trade EOD	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	02^64-2	Optional
Asset Class	Defines the Asset Class for a group of products.	Enumerated	3	(See field description)	Optional
Instrument Category	Indicates to which category the instrument belongs.	Enumerated	1	(See field description)	Optional
Instrument Type	Instrument Type.	Enumerated	4	(See field description)	Optional
Closing Price Type	Closing Price Type.	Enumerated	1	 Last Traded Price (LTP) Volume Weighted Average Price (VWAP) Volume Weighted Average Price (VWAP X Trades) 	Mandatory
EMMPattern					
EMM	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory
Pattern ID	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	02^16-2	Optional
Tick Size Index ID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	02^16-2	Optional

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File Description ndingDataFile (9007)

Field	Short Description	Format	Len	Values	Presence
Market Model	Market Model identifier.	Enumerated	1	(See field	Optional
Lot Size	For Cash and Derivatives, it defines a multiple of the tradable quantity.	Quantity	8	description) 02^64-2	Optional
Inst Unit Exp	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional
Bps Low Collar	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
Bps High Collar	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
Block Price Control ID	ID of the Block Price Table.	Numerical ID	2	(See field description)	Optional
Declaration Duration	Declaration Duration (in minutes).	Time	8	(See field description)	Optional
Eligible For Margin	Indicates if the instrument is eligible for margin or not.	Enumerated	1	0 No 1 Yes	Optional
Anonymous	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	02^8-2	Optional
/EMMPattern					
MDGSetOfChannels					
MDG Set Of Channels ID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
MDG Set Of Channels Name	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
/MDGSetOfChannels					
ETFDataFromMarketOfRef erence					
Six Months ADV Exchange Of Ref	Indicates the 6 months average daily volume (number of shares) traded on the exchange of reference (to be calculated with Quantity Decimals).	Quantity	8	02^64-2	Mandatory
AUM	Stands for Asset Under Management. Indicates the fund's total market value (to be calculated with the Amount Decimals).	Amount	8	02^64-2	Mandatory
BIC Main Depositary	Identifies the BIC of the default depository organization.	Alphanumerical ID	11	(See field description)	Mandatory
Cut Off Time	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	02^32-2	Mandatory

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File Description andinaDataFile <u>(</u>9007)

Field	Short Description	Format	Len	Values	Presence
Date Next Tradable NAV	Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	02^32-2	Mandatory
Publication Date Next Tradable NAV	Publication Date of the next tradable NAV. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	02^32-2	Mandatory
Dividend Frequency	Indicates how often a dividend is paid by an individual instrument.	Enumerated	1	 Capitalization Monthly Yearly 	Mandatory
MIC Exchange Of Reference	Indicates the instrument's Exchange of Reference by its MIC (Market Identification Code according to ISO 10383).	Alphanumerical ID	4	(See field description)	Mandatory
Name Exchange Of Reference	Indicates the instrument's Exchange of Reference by its Name.	Text	50	(See field description)	Mandatory
Exposition Type	Indicates the ETF replication method.	Enumerated	1	 Physical Synthetic Sampling 	Mandatory
ICSD	Indicates if the settlement can be processed through an International CSD (1) or not (0).	Boolean	1	02^8-2	Mandatory
Index Leverage	Indicates the multiplier coefficient of an leveraged fund. (To be calculated with RatioDecimal)	Numerical	4	02^32-2	Mandatory
Issuer Name	Indicates the name of the Legal Issuing Entity.	Text	80	(See field description)	Mandatory
LEI Code	LEI (Legal Entity Identifier) Code	Alphanumerical ID	20	(See field description)	Mandatory
Listing Date	Indicates the listing date of the fund on the Exchange of Reference. Date in an integer on 4 bytes expressed as YYYYMMDD	Date	4	02^32-2	Mandatory
NAV Currency	Code of the NAV currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Mandatory
Previous NAV	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
Reuters RIC Code	Indicates the Reuters RIC Code.	Alphanumerical ID	24	(See field description)	Mandatory
Total Expense Ratio	Total Expense Ratio (TER): total costs associated with managing and operating a fund.	Numerical	4	02^32-2	Mandatory
Bloomberg Ticker Code	Indicates the Bloomberg Ticker Code.	Alphanumerical ID	13	(See field description)	Mandatory
NAV Publication Time	Indicates the official NAV publication time. Time in an integer on 4 bytes expressed as hhmmss	Integer Time in hhmmss	4	02^32-2	Mandatory
UMTF	Indicates the instrument code based on 'Uniform MTF' symbology.	Alphanumerical ID	6	(See field description)	Mandatory
Underlying Name	Indicates the full name of the ETF underlying.	Text	102	(See field description)	Mandatory
Underlying Return Type	Indicates the dividend treatment applied.	Enumerated	1	 Net Total Return Price Return Total Return 	Mandatory

File Description tandinaDataFile (9007)

CashStandingDataFile (900						
Field	Short Description	Format	Len	Values	Presence	
Underlying Segmentation	Indicates the underlying asset segmentation.	Enumerated	1	(See field description)	Mandatory	
Bps Low Collar	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	
Bps High Collar	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	
/ETFDataFromMarketOfRef erence						
/StandingDataUnitary						
SetOfChannels						
MDG Set Of Channels ID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory	
MDG Set Of Channels Name	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory	
Channels				1254	Mandatory	
Channel Type	Defines the channel.	Enumerated	4	(See field description)	Mandatory	
MulticastDataRealTime						
Channel ID	Identifies the channel.	Numerical	2	02^16-2	Mandatory	
Channel Speed	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory	
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory	
MulticastA						
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory	
/MulticastA						
MulticastB						
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	

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File Description CashStandingDataFile (9007)

					StandingDataFile (90
Field	Short Description	Format	Len	Values	Presence
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastB					
/MulticastDataRealTime					
MulticastDataSnapshot					
Channel ID	Identifies the channel.	Numerical	2	02^16-2	Mandatory
Channel Speed	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
MulticastA					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastA					
MulticastB					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastB					
/MulticastDataSnapshot					
/Channels					
/SetOfChannels					
LogicalAccessConnectivity					
Partition					
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
IP Address Primary	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

File Description CashTickSizeReferentialFile (9020)

Field	Short Description	Format	Len	Values	Presence
IP Address DR	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
Partition Type	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 ticksizes 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 ticksizes, associated to an instrument class level. If an instrument uses specific variable ticksizes, which are different from the Class, the specific table index will figure in the Instrument Standing Data.
- Fixed ticksizes are also included in the ticksize file, they correspond to indexes for which only one entry range [0,MaxValue[is defined. In this case, the tick value itself is sent in the Instrument Standing Data, instead of the table index. If a fix ticksize and a variable ticksize are defined on an instrument, the fix ticksize takes priority over the variable ticksize.
- Point of attention: certain TCS products do not have ticksizes (and this is this is the expected behaviour).
 Ticksizes depend of the EMM and certain EMMs do not support ticksizes.
- 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 rangedependent) 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					
Tick Size Index ID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	02^16-2	Mandatory
CashTickSize					

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Euronext Markets - Opt	iq® File Specifications					File Description
DerivativesStandingDataFile					StandingDataFile (9013)	

Field	Short Description	Format	Len	Values	Presence
Minimum Price	Minimum Price of the order.	Price	8	(See field descripti on)	Mandatory
Tick Size	Tick Size applied in the price range	Price	8	(See field descripti on)	Mandatory
/CashTickSize					
/CashTickSizes					

3.4 DERIVATIVESSTANDINGDATAFILE (9013)

The Derivatives Standing Data file 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
 - $\circ \quad {\sf FeedConfigurationFile} \\$
 - 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.

File Description DerivativesStandingDataFile (9013)

- 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				1254	Mandatory
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory
Optiq Segment	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
Contract Event Date	Date of the last contract characteristics modification(s) except for some exceptions.	Date	2	02^16-2	Optional
Exchange Code	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory
Exer Style	Type of exercise of a derivatives instrument	Enumerated	1	0 European 1 American 2 Asian 3 Bermudan 4 Other	Optional
Contract Name	Contract Name	Text	60		Mandatory
Contract Type	Generic Contract Type.	Enumerated	1	F Future O Option U Underlying	Optional
Underlying Type	Defines the instrument type of the underlying.	Enumerated	1	C Commodity F Future I Index S Stock X Exchange Rate	Mandatory
Price Decimals	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Quantity Decimals	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Amount Decimals	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Ratio Decimals	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	02^8-2	Optional
Main Depositary	Identifies the default (or main) depository organization of the instrument (between the possible 4 depositaries registered) used by priority for the settlement (for example: multi-listed instruments which have several depositories).	Alphanumeric al ID	5	(See field description)	Optional
MIC	Identifies the market to which an instrument belongs by its MIC (Market Identification Code), segment MIC according to ISO 10383.	Alphanumeric al ID	4	(See field description)	Mandatory

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ield	Short Description	Format	Len	Values	Presence
Country Of Exchange	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumeric al ID	3	(See field description)	Mandatory
Product Code	Physical alphanumerical product code.	Alphanumeric al ID	4	(See field description)	Mandatory
Underlying MIC	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 al ID	4	(See field description)	Optional
Underlying ISIN Code	Underlying ISIN.	Inderlying ISIN. Alphanumeric al ID			Optional
Underlying Expiry	Expiry Date of the underlying (in number of days since the 1st of January 1970).	Date	4	02^32-2	Optional
Order Type Rules	Order types supported by the matching engine.	Bitmap	2	(See field description)	Mandatory
Settlement Method	Settlement method	Alphanumeric al ID	1	(See field description)	Optional
Trading Currency	Code of the currency (ISO 4217-3A).	e currency (ISO 4217-3A). Alphanumeric 3 (See field descript			Mandatory
Strike Price Decimals Ratio	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	02^8-2	Optional
MM Protections	Indicates allowed MM Protection type on the contract.(0: Disabled ; 1: Enabled)	Bitmap	1	0 Delta 1 Volume	Mandatory
Contract Trading Type	Contract Trading Type.	Enumerated	1	 Traded as an outright Not traded, but listed in contract data. Traders may subscribe to it Traded as a simple inter- commodity spread Traded as an inter- commodity spread 	Mandatory
Inst Unit Exp	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional
Underlying Subtype	Defined the underlying sub-type associated to the underlying type.	Enumerated	1	(See field description)	Optional
Mother Stock ISIN	ISIN Code of the index underlying of the TRF contract.	Text	12	(See field description)	Optional
Settlement Tick Size	Default Tick Size value applicable for all Settlement Prices. It's calculated using the PriceDecimals.	Price	8	02^64-2	Optional
EDSP Tick Size	Specific Tick Size value applicable for EDSP. It's calculated using the PriceDecimals.	Price	8	02^64-2	Optional

File Description

File Description

eld	Short Description	Format	Len	Values	Presence
Underlying Symbol Index	Identifies the Symbol Index of the underlying of the instrument.	Numerical ID	4	02^32-2	Optional
Trading Policy	Trading Policy enabling to allocate a given incoming volume to orders.	Enumerated	1	 Price Explicit Time Price Pro Rata 	Optional
Reference Spread Table ID	ID of the Reference Spread Table.	Numerical ID	2	02^16-2	Optional
Derivatives Market Model	Type of synthetic quote applied to the contract	Enumerated	1	 0 No Synthetic Quote 1 Spontaneous Implied Matching 2 Event Driven Implied Matching 	Optional
Trading Unit	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	02^64-2	Optional
Reference Price Origin in Opening Call	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
Reference Price Origin in Continuous	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
Reference Price Origin in Trading Interruption	For Derivatives, it is the rules to obtain the DCRP. Derivatives authorized values are : 4,5,6,7.	Enumerated	1	(See field description)	Optional
Collar Expansion Factor	Numerical coefficient applied in collar calculation.	Numerical ID	1	02^8-2	Optional
MIFID II Liquid Flag	Defines if a contract is to be considered as liquid under MIFID II Regulation.	Boolean	1	From 0 to 2^8-2	Mandatory
Pricing Algorithm	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
PRA ID	Identifier of the Pricer Reporting	Numerical	<u>2</u>	<u>02^32-2</u>	<u>Optional</u>
ContractENANAD	Agency for a Cash Settled contract				Orthough
ContractEMMProperties		_			Optional
EMM	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
Tick Size Index ID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	02^16-2	Optional
Pattern ID	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	02^16-2	Optional

File Description

eld	Short Description	Format	Len	Values	Presence
Lot Size	For Cash and Derivatives, it defines a multiple of the tradable quantity.	Quantity	8	02^64-2	Optional
Strategy Authorized	Provides strategy types authorized for contract.	Bitmap	8	(See field description)	Optional
Dynamic Collar Logic	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
Collar Max Unhalt Nb	Maximum number of automatic unhalts if collar logic enables unhalting.	Quantity	1	02^8-2	Optional
Collar Unhalt Delay	Delay (in seconds) of automatic unhalt if collar logic enables unhalting.	Time	4	02^32-2	Optional
/ContractEMMProperties					Optional
DerivativesParameters	1			0254	Optional
EMM	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Optional
Param Name	Name of a Contract parameter.	Enumerated	1	(See field description)	Optional
Param Value	Value of a Contract Parameter.	Text	255		Optional
Param Type Of Expression	Parameter Type Of Expression of Contract Parameter Name.	Enumerated	1	 Percentage Tick 	Optional
/DerivativesParameters					Optional
OutrightStandingDataUnitary				0254	Optional
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory
Contract Symbol Index	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	02^32-2	Mandatory
Instrument Event Date	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	2	02^16-2	Mandatory
ISIN Code	Instrument ISIN following ISO 6166.	Alphanumeric al ID	12	(See field description)	Mandatory
CFI	Classification code of a financial instrument defined by the ISO- 10962:2015 standard.	Text	6	(See field description)	Optional
Maturity Date	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Mandatory
Lot Size	Not Used	Quantity	8	Not Used	Mandatory
Strike Price	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
Last Trading Date	Last available trading date for the instrument	Date	2	02^16-2	Optional
				02^16-2	Optional

uronext Markets - Optiq® File	specifications			DerivativesSta	File Descriptio IndingDataFile (9013		
Field	Short Description	Format	Len	Values	Presence		
Derivatives Instrument Trading Code	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 al ID	18	(See field description)	Optional		
Derivatives Instrument Type	Indicates the type of derivative instrument	Enumerated	1	 Call Option Put Option Strategy Individual Future Underlying 	Optional		
Expiry Cycle Type	Defines the expiry cycle type	Enumerated	1	 Daily Weekly Monthly 	Optional		
Underlying Derivatives Instrument Trading Code	Is the underlying of the Derivatives Instrument Trading Code.	Alphanumeric al ID	18	(See field description)	Optional		
Underlying Symbol Index	 Identifies the Symbol Index of the underlying of the instrument. 	Numerical ID	4	02^32-2	Optional		
Trading Unit	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	02^64-2	Optional		
Observation Period	Period expressed in a number of	Numerical	<u>2</u>	<u>02^16-2</u>	<u>Optional</u>	 Field Code Changed	
	business days during which prices from Price Reporting Agency are used to compute the EDSP.					Formatted: No under	ine
Observation Period	Number of business days elapsed	Numerical	2	<u>02^16-2</u>	<u>Optional</u>	 Formatted: No under	ine
<u>Elapsed</u>	during the observation period (e.g. '2' means it is the second day of the observation period).					Field Code Changed	
OutrightStandingDatarep					Optional		
ЕММ	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory		
/OutrightStandingDatarep					Optional		
/OutrightStandingDataUnita y	ar				Optional		
StrategyStandingDataUnita	ry			0254	Optional		
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory		
Derivatives Instrument Trading Code	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 al ID	18	(See field description)	Mandatory		
Exchange Code	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory		
Maturity Date	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8		Mandatory		

ield	Short Description	Format	Len	Values	Presence
Strategy Code	Exchange-recognized strategy code	Alphanumeric al ID	1	(See field description)	Mandatory
Contract Symbol Index	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	02^32-2	Mandatory
CFI	Classification code of a financial instrument defined by the ISO- 10962:2015 standard.	Text	6	(See field description)	Optional
StrategyStandingDatarep				0254	Optional
Leg Symbol Index	MDG proprietary identification code of the instrument leg for the strategy.	Numerical ID	4	02^32-2	Mandatory
Leg Price	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
Leg Ratio	Ratio of lots for the leg. For contingent trades, the delta.	Quantity	4	02^32-2	Mandatory
Leg Buy Sell	Leg Side.	Enumerated	1	B Buy S Sell	Mandatory
/StrategyStandingDatarep					Optional
/StrategyStandingDataUnitar y					Optional
MDGSetOfChannels				0254	Optional
MDG Set Of Channels ID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
MDG Set Of Channels Name	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
/MDGSetOfChannels					Optional
/ContractStandingDataUnitary					Mandatory
SetOfChannels				1254	Mandatory
MDG Set Of Channels ID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory
MDG Set Of Channels Name	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory
Channels					
Channel Type	Defines the channel.	Enumerated	4	(See field description)	Mandatory
MulticastDataRealTime					
Channel ID	Identifies the channel.	Numerical	2	02^16-2	Mandatory
Channel Speed	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
MulticastA					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory

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Field	Short Description	Format	Len	Values	Presence
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastA					
MulticastB					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastB					
/MulticastDataRealTime					
MulticastDataSnapshot					
Channel ID	Identifies the channel.	Numerical	2	02^16-2	Mandatory
Channel Speed	Defines the Channel bandwidth.	Enumerated	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel	Mandatory
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory
MulticastA					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastA					
MulticastB					
Source IP Range	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory
DR Source IP Range	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory
Multicast Group IP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory
Port Number	Defines the port number.	Numerical	2	02^16-2	Mandatory
/MulticastB					
/MulticastDataSnapshot					
/Channels					
/SetOfChannels					
ogicalAccessConnectivity					
Partition					
Partition ID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	02^16-2	Mandatory

File Description

File Description DerivativesTickSizeFile (9021)

Field	Short Description	Format	Len	Values	Presence
IP Address Primary	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
IP Address DR	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
Partition Type	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					

3.5 DERIVATIVESTICKSIZEFILE (9021)

- The Ticksize file contains different tables defining the variable ticksizes used for trading activity. A table is composed of an index (identifying a table instance) with a list of price ranges that have corresponding ticksizes. 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 (months) = TTE(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 if 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.

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File Description OpenInterestFile (9014)

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:

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

Field	Short Description	Format	Len	Values	Presence
DerivativesTickSizes				1254	
Tick Size Index ID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	02^16-2	Mandatory
Tick Table Name	Name of the tick size table available in the Tick Table file.	Text	75	(See field description)	Mandatory
Tick Factor Max Period	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	02^32-2	Mandatory
Tick Factor	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	02^64-2	Mandatory
DerivativesTickSize					
Minimum Price	Minimum Price of the order.	Price	8	(See field description)	Mandatory
Tick Size	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 provide open interest as per the end of the previous trading day session information provided by Clearing Partner on derivatives instruments.

File Availability: Available 24/7.

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File Description ReferenceSpreadsFile (9045)

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					
Symbol Index	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory
ISIN Code	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory
Open Interest Date	Open interest date (Format YYYYMMDD).	Date	8	(See field description)	Mandatory
Open Interest	Open interest.	Quantity	8	From 0 to 2^64-2	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					
Reference Spread Table ID	ID of the Reference Spread Table.	Numerical ID	2	02^16-2	Mandatory
Reference Spread Table Name	Name of the Reference Spread Table.	Text	75	(See field description)	Mandatory

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File Description vDayCapAndVolTr<u>adFile (9015)</u>

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Field	Short Description	Format	Len	Values	Presence
/Message Core					
ReferenceSpreadRange			Ì	1254	1
Message Core					
TTE range Lower Limit	Time to Expiry. Expressed as Months (to be calculated with the Ratio / Multiplier Decimals).	Numerical ID	4	02^32-2	Mandatory
Low Price Range	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 -2^63+1 to 2^63-1	Mandatory
Reference Spread	Reference Spread.	Numerical	8	From -2^63+1 to 2^63-1	Mandatory
AQS Multiplier	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	02^32-2	Mandatory
Collars Multiplier	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	02^32-2	Mandatory
Reference Spread Expression	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
PrevDayCapAndVolTradCore Unitary					
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory
ISIN Code	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory

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File Description

Field	Short Description	Format	Len	Values	Presence
Prev Day Capital Traded	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	02^64-2	Mandatory
Previous Volume Traded	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	02^64-2	Mandatory
/PrevDayCapAndVolTradCor eUnitary					

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					
Symbol Index	Exchange identification code of the instrument/contract.	Numerical ID	4	02^32-2	Mandatory
Repo Settlement Price	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 -2^63+1 to 2^63-1	Mandatory
/RepoSettlementPriceUnitar y					

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					

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Field	Short Description	Format	Len	Values	Presence
Pattern ID	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	02^16-2	Mandato
Phase			1		
Phase Time	Time of Phase start	String	9	hh:mm:ssZ where Z is for UTC	Mandato
Phase Id	Indicates the phase of the instrument.	Enumerated	1	(See field description)	Mandato
Phase Qualifier	Indicates the Phase Qualifier (no multiple phase possible at the same time even if this field is a bitmap).	Bitmap	2	(See field description)	Mandato
Trading Period	Provides the current trading period.	Enumerated	1	 Opening (Cash and Derivatives) Standard (Cash and Derivatives) Closing (Cash and Derivatives) 	Mandato
Order Entry Qualifier	Field indicating the state of the Order Entry for the current market state.	Enumerated	1	 Order Entry/Cancel/ Modify Disabled Order Entry/Cancel/ Modify Enabled Cancel and Modify Only (Derivatives Only) Cancel Only 	Optiona
Session	Current market session.	Enumerated	1	(See field description)	Mandato
Scheduled Event	Type of Scheduled Event.	Enumerated	1	(See field description)	Optiona
/Phase					

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Euronext Markets - Optiq® File Specifications FIELD DESCRIPTION

Amount Decimals

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Α

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	02^8-2
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

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	CashStandingDataFile (9007)

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	02^32-2
	Null value: 2^32-1
Used In	ReferenceSpreadsFile (9045)
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

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Euronext Markets	ronext Markets - Optiq® File Specifications Field Descriptio	
Field Name	Asset Class	
	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	CashStandingDataFile (9007)	
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	02^64-2
	Null value: 2^64-1
Used In	CashStandingDataFile (9007)
User For	Cash

В

BIC Main Depositary

Field Name	BIC Main Depositary
Description	Identifies the BIC of the default depository organization.
Format	Alphanumerical ID (character)
Length	11
Used In	CashStandingDataFile (9007)
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	02^16-2 Null value: 2^16-1

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Euronext Markets - Optiq® File Specifications Field Description		escription
Field Name	Block Price Control ID	
Used In	CashStandingDataFile (9007)	
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	CashStandingDataFile (9007)
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+12^63-1
	Null value: -2^63
Used In	CashStandingDataFile (9007)
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+12^63-1
	Null value: -2^63
Used In	CashStandingDataFile (9007)
User For	Cash

С

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	CashStandingDataFile (9007) DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

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Field Description

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	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

Channel Speed

Field Name	Channel Speed
Description	Defines the Channel bandwidth.
Format	Enumerated (character)
Length	4
Possible Values	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
Used In	<u>CashStandingDataFile (9007)</u> DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

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Closing Price Type

Field Description

Field Name	Closing Price Type
Description	Closing Price Type.
	Indicates the type of closing Price configured for the instrument.
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)
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)

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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)

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	02^32-2
	Null value: 2^32-1
Used In	DerivativesStandingDataFile (9013)

Collars Multiplier

Field Description

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	02^32-2
	Null value: 2^32-1
Used In	ReferenceSpreadsFile (9045)
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	02^16-2
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Contract Name

Field Name	Contract Name
Description	Contract Name
Format	Text (character)
Length	60
Used In	DerivativesStandingDataFile (9013)
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	02^32-2
	Null value: 2^32-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Contract Trading Type

Field Description

Field Name	Contract Trading Type
Description	Contract Trading Type.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	 Traded as an outright Not traded, but listed in contract data. Traders may subscribe to it Traded as a simple inter-commodity spread Traded as an inter-commodity spread Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
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	DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

Currency Coefficient

Field Name	Currency Coefficient	
Description When an actual price is displayed in a different 'price expression' than the official instrument trading of Currency Coefficient represents the ratio 'price expression' divided by 'official currency' (To be calcula Multiplier Decimals).		
	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.	
	The Currency Coefficient may be used for the Instrument Trading Price (the Referential field Trading Currency Indicato 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).	
Format	Numerical ID (unsigned integer 32)	
Length	4	
Possible Values	02^32-2	

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Field Description

Field Name	Currency Coefficient
	Null value: 2^32-1
Used In	CashStandingDataFile (9007)
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	02^32-2	
	Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
User For	Cash	

D

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	02^8-2
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
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	02^64-2 Null value: 2^64-1	
Used In	CashStandingDataFile (9007)	
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)	

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Euronext Markets -	Euronext Markets - Optiq® File Specifications Field Descriptio		
Field Name	Dark Minimum Quantity		
Length	4		
Possible Values	02^32-2		
	Null value: 2^32-1		
Used In	CashStandingDataFile (9007)		
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	02^32-2	
	Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
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	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
User For	Cash

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	02^16-2
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)

Declaration Duration

Field Name	Declaration Duration
Description	Declaration Duration (in minutes).
Format	Time (unsigned integer 64) XML: unsigned integer 64
Length	8
Possible Values	02^64-2

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Euronext Markets - Optiq® File Specifications Field Descrip		Field Description
Field Name	Declaration Duration	
	Null value: 2^64-1	
Used In	CashStandingDataFile (9007)	

Depositary List

Field Name	Depositary 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:
	- '00001' – Euroclear France
	- '00002' – CIK (Belgium)
	- '00003' – NECIGEF (the Netherlands)
	- '00004' – X/N (BoB service)
	- '00005' – VIF (non-fungible Belgian instruments)
	- '00006' – Euroclear Bank
	- '00007' – NIEC
	- '00008' – Physical
	- '00009' – Euronext Paris non Euroclear France
	- '00010' – Interbolsa
	- '00000' – No depository organization
	- 'Nulls' – Not significant
Format	Text (character)
Length	20
Used In	CashStandingDataFile (9007)
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	Alphanumerical ID (character)
Length	18
Used In	DerivativesStandingDataFile (9013)
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: 2^8-1
Conditions	Value U (Underlying) is for internal Exchange use only
Used In	DerivativesStandingDataFile (9013)

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Euronext Markets - Optiq [®] File Specifications Field Description		
Field Name	Derivatives Instrument Type	
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	No Synthetic Quote Spontaneous Implied Matching Event Driven Implied Matching Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
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: 2^8-1
Used In	CashStandingDataFile (9007)
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	CashStandingDataFile (9007) DerivativesStandingDataFile (9013)
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: 2^8-1

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Euronext Markets -	Euronext Markets - Optiq® File Specifications Field Descriptic	
Field Name	Dynamic Collar Logic	
Used In	DerivativesStandingDataFile (9013)	



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	02^64-2
	Null value: 2^64-1
Used In	DerivativesStandingDataFile (9013)
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)
Length	1
Possible Values	1 Yes
	0 No
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)

EMM

Field Name	EMM	
Description	Defines the Exchange Market Mechanism applied on each platform.	
	In the Reject (07) message:	
	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.	
	Not populated for rejection of strategy creation on derivative markets.	
	In the Mass Cancel (13) message, it is mandatory when Symbol Index is provided and optional when Instrument Group Code is provided.	
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	

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Euronext Market.	s - Optiq® File Specifications Field Descrip
Field Name	EMM
Conditions In TCS messages only possible values are '2' = NAV Trading Facility and '5' = Cash On Exchange Off populated in Reject (07) messages for rejection of strategy creation on derivatives markets.	
Used In	CashStandingDataFile (9007) CashTickSizeReferentialFile (9020) DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

Exchange Code

Field Name	Exchange Code
Description	Indicates the Market Place.
Format	Enumerated (character)
Length	1
Possible Values	 A Amsterdam Equity Derivatives B Brussels Equity Underlyings 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 P Arris Equity Derivatives R Amsterdam Commodities Derivatives S Lisbon Equity Derivatives Y Paris Commodities Derivatives Z Amsterdam Currency Derivatives
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Exer Style

Field Name	Exercise Style
Description	Type of exercise of a derivatives instrument
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	0 European
	1 American
	2 Asian
	3 Bermudan
	4 Other
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Expiry Cycle Type

Field Description

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: 2^8-1
Used In	DerivativesStandingDataFile (9013)
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: 2^8-1
Used In	CashStandingDataFile (9007)
User For	Cash

F

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	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
User For	Cash

Full Instrument Name

Field Name	Full Instrument Name
Description	Full Instrument Name.
Format	Text (character)
Length	102
Used In	CashStandingDataFile (9007)
User For	Cash
	1

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Field Description

Guarantee Indicator

G

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	 This instrument is not guaranteed This instrument is guaranteed This instrument is not clearable This instrument is part of Cleared Borrowing and Lending Service (CBLM) and is guaranteed Null value: 2^8-1
Used In	CashStandingDataFile (9007)
User For	Cash

I

ICB

Field Name	ICB	
Description	Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification. This field is not relevant and is currently filled with '000000000000000'.	
Format	Alphanumerical ID (character)	
Length	16	
Used In	CashStandingDataFile (9007)	
User For	Cash	

ICB Code

Field Name	ICB Code	
Description	Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification. This field is not relevant and is currently filled with '00000000'.	
Format	Alphanumerical ID (character)	
Length	8	
Used In	CashStandingDataFile (9007)	
User For	Cash	

ICSD

Field Name	ICSD	
Description	Indicates if the settlement can be processed through an International CSD (1) or not (0).	
Format	Boolean (unsigned integer 8)	
Length	1	
Possible Values	02^8-2	
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Euronext Markets - Optiq® File Specifications		Field Description
Field Name	ICSD	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	
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	02^32-2
	Null value: 2^32-1
Used In	CashStandingDataFile (9007)
User For	Cash

Instrument Category

Field Name	Instrument Category
Description	Indicates to which category the instrument belongs.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	Equities Fixed Income Warrants And Certificates
	6 Trackers 7 Futures
	10 Options 11 Indices 12 Euronext Funds Services
	 14 iNAV (Indicative Net Asset Value) 254 Miscellaneous Null value: 2^8-1
Used In	CashStandingDataFile (9007)
User For	Cash and Derivatives

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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

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Instrument Group Code

Field Description

Field Name	Instrument Group Code
Description	Instrument Group / Class Identifier.
Format	Alphanumerical ID (character)
Length	2
Used In	CashStandingDataFile (9007)
User For	Cash

Instrument Name

Field Name	Instrument Name
Description	Instrument Name
Format	Text (character)
Length	18
Used In	CashStandingDataFile (9007)
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	Alphanumerical ID (character)
Length	15
Used In	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
User For	Cash

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Inst Unit Exp

Field Description

Field Name	Instrument Unit Expression
Description	Unit in which the instrument is quoted.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	 Units Percentage of Nominal Excluding Accrued Interest (Clean) Basis Points Percentage of Nominal Including Accrued Interest (Dirty) Yield Kilograms Ounces Null value: 2^8-1
Used In	CashStandingDataFile (9007) DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

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	Alphanumerical ID (character)
Length	12

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uronext Markets - Optiq® File Specifications Field Descriptio	
Field Name	ISIN Code
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	CashStandingDataFile (9007) DerivativesStandingDataFile (9013) PrevDayCapAndVoITradFile (9015)
User For	Cash and Derivatives

Issue Price

Field Name	Issue Price
Description	Issuing price of the instrument
Format	Price (signed integer 64)
Length	8
Possible Values	-2^63+12^63-1
	Null value: -2^63
Used In	CashStandingDataFile (9007)
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	02^8-2
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
User For	Cash

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Field Description

Last Adjusted Closing Price

L

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	-2^63+12^63-1
	Null value: -2^63
Used In	CashStandingDataFile (9007)
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	02^16-2
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
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	DerivativesStandingDataFile (9013)
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+12^63-1
	Null value: -2^63

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4.6.1

Euronext Markets	iuronext Markets - Optiq® File Specifications Field Descripti	
Field Name	Leg Price	
Conditions	This field is not populated in message Security Definition Request (60) only for the submission of a Delta-neutral strategy.	
Used In	DerivativesStandingDataFile (9013)	
User For	Derivatives	

Leg Ratio

Field Name	Leg Ratio
Description	Ratio of lots for the leg. For contingent trades, the delta. 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). 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 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	099999
Condition	For New Wholesale Order (64) only populated for strategies
Used In	DerivativesStandingDataFile (9013)
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	02^32-2
	Null value: 2^32-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

LEI Code

Field Name	LEI Code
Description	LEI (Legal Entity Identifier) Code
Format	Alphanumerical ID (character)
Length	20
Used In	CashStandingDataFile (9007)
User For	Cash and Derivatives

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)	

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uronext Markets - Optig® File Specifications		Field Description
Field Name	Liquid Instrument Indicator	
Length	1	
Possible Values	02^8-2	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	

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	02^32-2 Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
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	0.2^64-2	
	Null value: 2^64-1	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	
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	-2^63+12^63-1 Null value: -2^63	
Used In	ReferenceSpreadsFile (9045)	
User For	Derivatives	



Main Depositary

Field Name	Main Depositary	
Description Identifies the default (or main) depository organization of the instrument (between the possible 4 depositaries register used by priority for the settlement (for example: multi-listed instruments which have several depositories).		
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Euronext Marke	ets - Optiq® File Specifications Field Description
Field Name	Main Depositary
	For Cash Markets this data has to be treated in consideration of the data Depositary List used by the clearing house to determine the relevant system for settling trades. Valid values are the same as for "Depositary List".
	Valid values are:
	- '00001' – Euroclear France
	- '00002' – Euroclear Belgium
	- '00003' – Euroclear Nederland
	- '00004' – X/N National Bank of Belgium
	- '00005' – VIF (non-fungible Belgian instruments)
	- '00006' – Euroclear Bank
	- '00008' – Physical
	- '00010' – Interbolsa
	- '00000' – No depository organization
	- 'Nulls' – Not significant
Format	Alphanumerical ID (character)
Length	5
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)	
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'.	
Used In	CashStandingDataFile (9007)	
User For	Cash	

Maturity Date

	Field Name
Description Maturity Date of the instrument (text formatted as YYYYMMDD).	Description

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Euronext Marke	uronext Markets - Optiq® File Specifications Field Descriptic		
Field Name	Maturity Date		
	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	CashStandingDataFile (9007)		
	DerivativesStandingDataFile (9013)		
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	02^8-2	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	
User For	Cash	

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
	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
	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

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Euronext Market	5 - Optiq® File Specifications	Field Descriptio
Field Name	MDG Set Of Channels ID	
	29 APA SI Quotes	
	30 APA Trade Publication	
	31 Best of Book (BoB) Funds	
	32 ETF Access	
	33 Block	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	

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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

ΜΙ

I

Field Name	МІС
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
	- 'EMTF' – EURO MTF
	- 'ENXB' – EURONEXT - EASY NEXT
	- 'ENXL' – EURONEXT ACCESS LISBON
	- 'MFOX' - EURONEXT - MERCADO DE FUTUROS E OPÇÕES
	- 'MLXB' - EURONEXT ACCESS BRUSSELS
	- 'TNLA' – EURONEXT - TRADED BUT NOT LISTED AMSTERDAM
	- 'TNLB' – EURONEXT – TRADING FACILITY BRUSSELS
	- 'VPXB' - EURONEXT - VENTES PUBLIQUES BRUSSELS
	- 'WQXL' – EURONEXT - MARKET WITHOUT QUOTATIONS LISBON
	- 'XAMS' – EURONEXT - EURONEXT AMSTERDAM
	- 'XBRD' - EURONEXT - EURONEXT BRUSSELS - DERIVATIVES
	- 'XBRU' – EURONEXT - EURONEXT BRUSSELS
	- 'XEUC' - EURONEXT COM, COMMODITIES FUTURES AND OPTIONS
	- 'XEUE' - EURONEXT EQF, EQUITIES AND INDICES DERIVATIVES
	- 'XEUI' - EURONEXT IRF, INTEREST RATE FUTURE AND OPTIONS
	- 'XLDN' – EURONEXT - EURONEXT LONDON
	- 'XLIS' – EURONEXT - EURONEXT LISBON
	- 'XLUX' – LUXEMBOURG STOCK EXCHANGE
	- 'XMAT' - EURONEXT PARIS MATIF
	- 'XMLI' – EURONEXT ACCESS PARIS
	- 'XMON' - EURONEXT PARIS MONEP
	- 'XOTH' - Others - This MIC is not registered. It is use for testing purpose in both p-EUA and Production.
	- 'XPAR' – EURONEXT - EURONEXT PARIS
	- 'XSPM' - EURONEXT STRUCTURED PRODUCTS MTF
	- 'XOSL' – OSLO BORS ASA
	- 'MERK' – MERKUR MARKET
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Euronext Marke	uronext Markets - Optiq® File Specifications Field Descriptio	
Field Name	MIC	
	- 'XOAS' – OSLO AXESS	
	- 'XOAM' – NORDIC ALTERNATIVE BOND MARKET	
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	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	
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	CashStandingDataFile (9007)
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:
	- The first MIC is the same than the "Market Identification Code (MIC) of the listed instrument
	- The others MIC indicate the other listing places
Format	Alphanumerical ID (character)
Length	20
Used In	CashStandingDataFile (9007)

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 2^8-2
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Minimum Price

Field Name	Minimum Price
Description	XML additional information:
	Price with decimals on x characters, with '.' as a separator
Format	Price (signed integer 64)
	XML: Decimals

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Field Name	Minimum Price	
Length	8	
Possible Values		
	Null value: -2^63	
Used In	CashTickSizeReferentialFile (9020)	
	DerivativesTickSizeFile (9021)	
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: 2^8-1
Used In	DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)
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	DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007) DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

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Field Description

Name Exchange Of Reference

Field Name	Name Exchange Of Reference
Description	Indicates the instrument's Exchange of Reference by its Name.
Format	Text (character)
Length	50
Used In	CashStandingDataFile (9007)
User For	Cash

NAV Currency

Ν

Field Name	NAV Currency
Description	Code of the NAV currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	CashStandingDataFile (9007)
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	02^32-2
	Null value: 2^32-1
Used In	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
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	02^64-2

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Cash

Euronext Markets	Euronext Markets - Optiq® File Specifications Field Descripti	
Field Name	Number Instrument Circulating	
	Null value: 2^64-1	
Used In	CashStandingDataFile (9007)	

0

User For

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.
<u>Format</u>	Numerical ID (unsigned integer 16)
Length	2
Possible Values	<u>02^16-2</u>
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
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	0.2^16-2 Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Open Interest

Field Name	Open Interest
Description	Open interest.
Format	Quantity (unsigned integer 64)
Length	8
Possible Values	02^64-2
	Null value: 2^64-1
Used In	OpenInterestFile (9014)
User For	Cash

Open Interest Date

Field Name	Open Interest Date
Description	XML additional information: (Format YYYYMMDD).
Format	Date (unsigned integer 16)

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Euronext Markets	ironext Markets - Optiq® File Specifications Field Des	
Field Name	Open Interest Date	
	XML: XML date	
Length	2	
Possible Values	02^16-2	
	Null value: 2^16-1	
Used In	OpenInterestFile (9014)	
User For	Derivatives	

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
	14 Block
	11 Index Derivatives
	12 Equity Derivatives
	15 Forex
	16 ISE Bonds and Funds Feed
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
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	Order Entry/Cancel/Modify Disabled Order Entry/Cancel/Modify Enabled Cancel and Modify Only (Derivatives Only) Cancel Only Null value: 2^8-1
Used In	TimetableFile (9001)
User For	Cash and Derivatives

Euronext Markets - Optiq® File Specifications
Order Type Rules

Field Description

Field Name	Order Type Rules
Description	Order types supported by the matching engine.
	- bit in position 0 – Market: Market orders are available for this instrument (0: No ; 1: Yes)
	- bit in position 1 – Limit: Limit orders are available for this instrument (0: No ; 1: Yes)
	- bit in position 2 - Stop / Stop Loss: Stop and stop loss orders are available for this instrument (0: No ; 1: Yes) - Only for OEG
	- bit in position 3 - Stop Limit: Stop limit orders are available for this instrument (0: No ; 1: Yes) - Only for OEG
	- bit in position 4 - Market on Open (MOO): Market on open orders are available for this instrument (0: No ; 1: Yes)
	- bit in position 5 - Trade at Settlement: Trade at settlement are available for this instrument (0: No ; 1: Yes)
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	DerivativesStandingDataFile (9013)
User For	Derivatives

Ρ

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	02^64-2
	Null value: 2^64-1
Used In	CashStandingDataFile (9007)
User For	Cash

Param Name

Field Name	Param Name
Description	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:
	1 – RFCPublication: Boolean (If 0 then RFC is considered as illiquid ; If 1 then RFC is considered as liquid)
	2 – RFCAlgorithm: Value (Is the RFC Algorithm: 1 – Standard RFC ; 2 – Client Best Execution RFC)
	3 - RFCMinimumQuantityForInitiator: Quantity (Minimum quantity to submit for RFC as an initiator)
	4 - RFCMinimumQuantityForReactor: Quantity (Minimum quantity to submit for RFC as a reactor)
	5 - RFCMaxPickUpPercentageForReactor: Percentage (Maximum percentage of the remaining quantity after price improvement reserved for reactors)
	6 - RFCValidityPeriod: Seconds (Period during which RFC Responses are submitted)
	7 - AvailableWholesaleTradeType: Bitmap (Bit 0: Large in Scale); (Bit 1: Against Actual); (Bit 2: Exchange for Swaps)
	8 - ContractLISTradeThreshold: Amount

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Euronext Markets -	Optiq® File Specifications	Field Description
Field Name	Param Name	· ·
	9 – RFCCOBInclusion: Boolean (If 0 then orders from Central Order Book are not part of RFC ; If 1 then o Central Order Book are part of RFC	rders from
	12 - IntradayInstrumentCreationDelay: Number of minutes	
	14 - FSP Cool Down Period: Number of seconds	
	15 - FSP Period: Number of seconds	
	16 - LISPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)	
	17 - AAPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)	
	18 - EFSPriceChecks: Bitmap (Bit 0: Dynamic Collars); (Bit 1: Daily High/Low); (Bit 2: Lifetime High/Low)	
	19 - WholesaleValidityPeriod: Number of minutes	
	20 - DN Underlying Price Limit Deviation: Absolute Value (Price Variation)	
	 21 - CVF: Absolute Value (This field represents the monetary value of a decimal price of 1.0 points) 22 - ProRataThreshold: Volume (Minimal volume threshold for the pro rata trading policy) 	
Format	Enumerated (unsigned integer 8)	
Length	1	
Possible Values	RFCPublication RFCMinimumQuantityForInitiator RFCMinimumQuantityForReactor	
	5 RFCPickUpPerc	
	6 RFCImprovementPeriod	
	7 AvailableWholesaleTradeType	
	8 ContractLISTradeThreshold	
	9 RFCCOBInclusion	
	12 IntradayInstrumentCreationDelay	
	13 FSP Spread	
	14 FSP Cool Down Period	
	15 FSP Period	
	16 LISPriceChecks	
	17 AAPriceChecks	
	18 EFSPriceChecks	
	19 WholesaleValidityPeriod	
	20 DN Underlying Price Limit Deviation	
	21 CVF	
	22 ProRataThreshold	
	Null value: 2^8-1	
Used In	DerivativesStandingDataFile (9013)	
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: 2^8-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

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Param Value

Field Description

Field Name	Contract Parameter Value
Description	Value of a Contract Parameter.
Format	Text (character)
Length	255
Used In	DerivativesStandingDataFile (9013)
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	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
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	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
	TimetableFile (9001)
User or	Cash

Phase Id

Field Description

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 7 Continuous Uncrossing (Warrants and Certificates Only) Null value: 2^8-1
Used In	TimetableFile (9001)
User For	Cash and Derivatives

Phase Qualifier

Field Name	Phase Qualifier
Description	Indicates the Phase Qualifier (no multiple phase possible at the same time even if this field is a bitmap). - bit in position 0 – No Qualifier: indicates that no phase qualifier are applicable (0: No ; 1: Yes) - Deprecated - bit in position 1 – Call BBO Only (Cash Only): indicates a call on BBO only phase (0: No ; 1: Yes) - bit in position 2 – Trading At Last (Cash Only): indicates a trading at last phase (TaL) phase (0: No ; 1: Yes) - bit in position 3 – Random Uncrossing (Cash Only): indicates a random uncrossing phase (0: No ; 1: Yes)
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 (Cash Only) Null value: 2^16-1
Used In	TimetableFile (9001)
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	TimetableFile (9001)
User For	Cash and Derivatives

Port Number

Field Name	Port Number		
Description	Defines the port number.		
Format	Numerical (unsigned integer 16)		
Length	2		
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Field	Desc	riı

Euronext Markets -	Optiq® File Specifications Field Descripti
Field Name	Port Number
Possible Values	02^16-2
	Null value: 2^16-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

PRA ID

Field Name	PRAID
Description	Identifier of the Price Reporting Agency for a Cash Settled contract.
<u>Format</u>	Numerical ID (unsigned integer 16)
Length	2
Possible Values	02^16-2
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
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	02^64-2	
	Null value: 2^64-1	
Used In	PrevDayCapAndVolTradFile (9015)	
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)	
Length	8	
Possible Values	-2^63+12^63-1	
	Null value: -2^63	
Used In	CashStandingDataFile (9007)	
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

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Euronext Markets - Optiq® File Specifications		Field Description
Field Name	Previous Volume Traded	
Possible Values	02^64-2 Null value: 2^64-1	
Used In	PrevDayCapAndVolTradFile (9015)	
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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
	CashStandingDataFile (9007)
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	02^32-2	
	Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
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	02^8-2
	Null value: 2^8-1
Conditions	For Declaration Entry (40) message, it is mandatory when Price Multiplier is provided.
Used In	CashStandingDataFile (9007)
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	

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Euronext Markets - Optiq® File Specifications		Field Description
Field Name	Pricing Algorithm	
	1 = Total Return Future	
	2 = Market On Close	
Used In	DerivativesStandingDataFile (9013)	
User For	Derivatives	

Product Code

Field Name	Product Code
Description	Physical alphanumerical product code.
Format	Alphanumerical ID (character)
Length	4
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

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	02^32-2	
	Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
User For	Cash	

Publication Date Time

Field Name	Publication Date Time
Description	Date and time when the transaction was published by a trading venue or Approved Publication Arrangement (APA).
	Date and time in the following format: YYYY-MM-DDThh:mm:ss.ddddddZ.
	Where:
	- 'YYYY' is the year.
	- 'MM' is the month.
	- 'DD' is the day.
	- 'T' constant 'T' letter used as separator between YYYY-MM-DD and hh:mm:ss.ddddddZ.
	- 'hh' is the hour.
	- 'mm' is the minute.
	- 'ss.dddddd' is the second and its fraction of a second.
	- 'Z' constant 'Z' letter that stands for UTC time.
Format	Text (character)
Length	27
Used In	CashStandingDataFile (9007)
User For	Cash and Derivatives



Field Description

Quantity Decimals

Q

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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
	CashStandingDataFile (9007)
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

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Euronext Markets -	Optiq® File Specifications	Field Description
Field Name	Reference Price Origin	
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: 2^8-1	
Used In	DerivativesStandingDataFile (9013)	

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: 2^8-1
Used In	DerivativesStandingDataFile (9013)

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)
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: 2^8-1
Used In	DerivativesStandingDataFile (9013)

Reference Spread

Field Name	Reference Spread
Description	Reference Spread.
Format	Numerical (signed integer 64)
Length	8
Possible Values	-2^63+12^63-1
	Null value: -2^63

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Euronext Markets	Optiq® File Specifications	Field Description
Field Name	Reference Spread	
Used In	ReferenceSpreadsFile (9045)	
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: 2^8-1
Used In	ReferenceSpreadsFile (9045)
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	02^16-2
	Null value: 2^16-1
Used In	DerivativesStandingDataFile (9013)
	ReferenceSpreadsFile (9045)
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	ReferenceSpreadsFile (9045)
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	 O Instrument neither eligible for the SRD, nor eligible for the Loan and Lending Market Instrument eligible for the SRD and for the Loan and Lending Market Instrument eligible for the SRD long only Instrument eligible for the Loan and Lending Market and for the SRD long only Easy-to-borrow Instrument eligible for the SRD and the for Loan and Lending Market

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Euronext Market	ironext Markets - Optiq® File Specifications Field Descrip	
Field Name	Repo Indicator	
	5 Instrument eligible for the Loan and Lending Market	
	8 Non significant	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	
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	-2^63+12^63-1
	Null value: -2^63
Used In	RepoSettlementPriceFile (9016)
User For	Cash

Reuters RIC Code

Field Name	Reuters RIC Code
Description	Indicates the Reuters RIC Code.
Format	Alphanumerical ID (character)
Length	24
Used In	CashStandingDataFile (9007)
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)

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	s - Optiq® File Specifications	Field Descriptior
Field Name	Scheduled Event	
	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	
	Null value: 2^8-1	
Used In	TimetableFile (9001)	
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	TimetableFile (9001)
User For	Cash and Derivatives

Settlement Delay

Field Name	Settlement Delay
Description	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.
	This is generally a standard period for Euronext Cash markets.
	Permitted Values
	- From 0 to 30 (Standard values)
	- X: This value is assigned for a lot of products and internal management rules shared by Euronext and LCH-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	Alphanumerical ID (character)
Length	2
Used In	CashStandingDataFile (9007)
User For	Cash

Settlement Method

Field Nam	e Settlement Method
Descriptio	n Settlement method
	- "C" = Cash Settlement

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Euronext Marke	uronext Markets - Optiq® File Specifications Field Descripti	
Field Name	Settlement Method	
	- "P" = Physical Settlement	
	- "O" = Optional	
	- Blank/null for exchanges "C", "G", "D", "H" containing Underlying instruments	
Format	Alphanumerical ID (character)	
Length	1	
Used In	DerivativesStandingDataFile (9013)	
User For	Derivatives	

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
Possible Values	02^64-2
	Null value: 2^64-1
Used In	DerivativesStandingDataFile (9013)
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	02^64-2
	Null value: 2^64-1
Used In	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
User For	Cash and Derivatives

Start Time Vwap

Field Name	Start Time Vwap		
Description	XML additional information:		
	(Text formatted following ISO 8	601: hh:mm:ssZ where Z stands for UTC).	
Format	Intraday Time in Seconds (unsig	ned integer 32)	
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Euronext Markets -	Optiq® File Specifications	Field Descriptio
Field Name	Start Time Vwap	
	XML: XML timeSec	
Length	4	
Possible Values	02^32-2	
	Null value: 2^32-1	
	Default value: 2^32-1	
Conditions	For Declaration Entry (40) message, it is mandatory for declarations when Operation Type = '5'.	
Used In	CashStandingDataFile (9007)	
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)	
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	
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Field Name	Strategy Authorized	
	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: 2^64-1	
Used In	DerivativesStandingDataFile (9013)	

Strategy Code

Field Name	Strategy Code
Description	Exchange-recognized strategy code
Format	Alphanumerical ID (character)
Length	1
Possible Values	A Jelly Roll
	B Butterfly
	C Call or Put Cabinet – Deprecated
	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
	Z Reduced Tick Spread - Deprecated
	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

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Euronext Markets -	Optiq® File Specifications	Field Description
Field Name	Strategy Code	
	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	
	u Buy Write - Deprecated	
	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	DerivativesStandingDataFile (9013)	
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	CashStandingDataFile (9007)
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	CashStandingDataFile (9007)
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+12^63-1
	Null value: -2^63

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Field Desc	rip	ti
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Euronext Markets	s - Optiq® File Specifications	Field Description
Field Name	Strike Price	
Used In	DerivativesStandingDataFile (9013) CashStandingDataFile (9007)	
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	02^8-2
	Null value: 2^8-1
Used In	CashStandingDataFile (9007)
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	02^8-2
	Null value: 2^8-1
Used In	DerivativesStandingDataFile (9013)
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	02^32-2 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	CashStandingDataFile (9007)

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Field Description

uronext Markets - Optiq® File Specifications		Field Descriptio
Field Name	Symbol Index	
	DerivativesStandingDataFile (9013)	
	OpenInterestFile (9014)	
	PrevDayCapAndVolTradFile (9015)	
	RepoSettlementPriceFile (9016)	
User For	Cash and Derivatives	



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: 2^8-1
Used In	CashStandingDataFile (9007)
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	02^64-2
	Null value: 2^64-1
Used In	CashStandingDataFile (9007)
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	02^64-2 Null value: 2^64-1
Used In	CashStandingDataFile (9007)
User For	Cash

Euronext Markets - Optiq® File Specifications
Threshold LIS Post Trade EOD

Field Description

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	02^64-2 Null value: 2^64-1
Used In	CashStandingDataFile (9007)
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	02^64-2	
	Null value: 2^64-1	
Used In	DerivativesTickSizeFile (9021)	
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	02^32-2
	Null value: 2^32-1
Used In	DerivativesTickSizeFile (9021)
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	-2^63+12^63-1
	Null value: -2^63
Used In	CashTickSizeReferentialFile (9020)
	DerivativesTickSizeFile (9021)
User For	Cash and Derivatives

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Tick Size Index ID

Field Description

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	02^16-2
	Null value: 2^16-1
Used In	CashTickSizeReferentialFile (9020)
	DerivativesStandingDataFile (9013)
	DerivativesTickSizeFile (9021)
	CashStandingDataFile (9007)
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	DerivativesTickSizeFile (9021)	
User For	Derivatives	

TTE range Lower Limit

Field Name	Time To Expiry	
Description	ime to Expiry. Expressed as Months (to be calculated with the Ratio / Multiplier Decimals).	
Format	lumerical ID (unsigned integer 32)	
Length	4	
Possible Values	02^32-2	
	Null value: 2^32-1	
Used In	Reference Spreads File (9045)	
User For	Derivatives	

Total Expense Ratio

Field Name	Total Expense Ratio	
Description	otal Expense Ratio (TER): total costs associated with managing and operating a fund.	
Format	lumerical (unsigned integer 32)	
Length	4	
Possible Values	02^32-2	
	Null value: 2^32-1	
Used In	CashStandingDataFile (9007)	
User For	Cash	

Trade Reference

Field Description

Field Name	Trade Reference	
Description	Reference of the trade reported to the Exchange.	
Format	Alphanumerical ID (character)	
Length	30	
Used In	CashStandingDataFile (9007)	
User For	Cash and Derivatives	

Trading Currency

Field Name	Trading Currency
Description	Code of the currency (ISO 4217-3A).
Format	Alphanumerical ID (character)
Length	3
Used In	DerivativesStandingDataFile (9013) CashStandingDataFile (9007)
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	CashStandingDataFile (9007)	
User For	Cash	

Trading Date Time

Field Name	Trading Date Time	
Description	Date and time when the transaction was executed.	
	Date and time in the following format: YYYY-MM-DDThh:mm:ss.ddddddZ.	
	Where:	
	- 'YYYY' is the year.	
	- 'MM' is the month.	
	- 'DD' is the day.	
	- 'T' constant 'T' letter used as separator between YYYY-MM-DD and hh:mm:ss.ddddddZ.	
	- 'hh' is the hour.	
	- 'mm' is the minute.	
	- 'ss.dddddd' is the second and its fraction of a second.	
	- 'Z' constant 'Z' letter that stands for UTC time.	
Format	Text (character)	
Length	27	
Conditions	It indicates the original execution date for a reporting/publication entered.	

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Euronext Markets - Optiq® File Specifications Field Desc	
Field Name	Trading Date Time
Used In	CashStandingDataFile (9007)
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	1 Opening (Cash and Derivatives)
	2 Standard (Cash and Derivatives)
	3 Closing (Cash and Derivatives)
	Null value: 2^8-1
Used In	TimetableFile (9001)
User For	Cash and Derivatives

Trading Policy

Field Name	rading Policy	
Description	Trading Policy enabling to allocate a given incoming volume to orders.	
Format	Enumerated (unsigned integer 8)	
Length	1	
Possible Values	L Price Explicit Time	
	2 Price Pro Rata	
	Null value: 2^8-1	
Used In	DerivativesStandingDataFile (9013)	
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 due to the corporate action and should be used for that Outright instrument.	
Format	Quantity (unsigned integer 64)	
Length	8	
Possible Values	02^64-2	
	Null value: 2^64-1	
Used In	DerivativesStandingDataFile (9013)	
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	
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Euronext Markets	ronext Markets - Optiq® File Specifications Field Descriptio	
Field Name	Transaction Type	
	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: 2^8-1	
Used In	CashStandingDataFile (9007)	
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: 2^8-1
Used In	CashStandingDataFile (9007)
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)
	"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	Alphanumerical ID (character)
Length	2

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Euronext Marke	Euronext Markets - Optiq [®] File Specifications Field Descript	
Field Name	Type Of Corporate Event	
Used In	CashStandingDataFile (9007)	
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	CashStandingDataFile (9007)
User For	Cash

U

UMTF

Field Name	UMTF
Description	Indicates the instrument code based on 'Uniform MTF' symbology.
Format	Alphanumerical ID (character)
Length	6
Used In	CashStandingDataFile (9007)
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	DerivativesStandingDataFile (9013)
User For	Derivatives

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Underlying Expiry

Field Description

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	02^32-2
	Null value: 2^32-1
Used In	DerivativesStandingDataFile (9013)
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	DerivativesStandingDataFile (9013)
	CashStandingDataFile (9007)
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	DerivativesStandingDataFile (9013)
	CashStandingDataFile (9007)

Underlying Name

Field Name	Underlying Name
Description	Indicates the full name of the ETF underlying.
Format	Text (character)
Length	102
Used In	CashStandingDataFile (9007)
User For	Cash

Underlying Return Type

Field Name	Underlying Return Type
Description	Indicates the dividend treatment applied.
Format	Enumerated (unsigned integer 8)
Length	1

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uronext Markets -	Optiq [®] File Specifications	Field Description
Field Name	Underlying Return Type	
Possible Values	1 Net Total Return	
	2 Price Return	
	3 Total Return	
	Null value: 2^8-1	
Used In	CashStandingDataFile (9007)	
User For	Cash	

Underlying Segmentation

Field Name	Underlying Segmentation
Description	Indicates the underlying asset segmentation.
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	1 Equity 2 Fixed Income 3 Mixed 4 Alternative 5 Currency 6 Commodities Null value: 2^8-1
Used In	CashStandingDataFile (9007)
User For	Cash

Underlying Subtype

Field Name	Underlying Subtype
Description	Defined the underlying sub-type associated to the underlying type.
	Underlying Type "Stock" accepts following Underlying Subtypes:
	Basket, Dividend, ETF and Share
	Underlying Type "Index" accepts:
	Dividend Index, Equity Index, TRF Index and Volatility Index
	Underlying Type "Future" accepts:
	Future on Commodities
	Underlying Type "Exchange rate" accepts:
	FX Cross Rates (FXCR), FX Emerging Markets (FXEM) and FX Majors (FXMJ)
	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)
Format	Enumerated (unsigned integer 8)
Length	1
Possible Values	 Basket Dividend ETF Share Dividend Index Equity Index Equity Index TRF Index Volatility Index Future On Commodities FXCR - FX Cross Rates FXCR - FX Errors Rates FXCR - FX Errors Rates

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Euronext Markets	s - Optiq® File Specifications	Field Description
Field Name	Underlying Subtype	
	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	
Used In	DerivativesStandingDataFile (9013)	
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	02^32-2
	Null value: 2^32-1
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Underlying Type

Field Name	Underlying Type
Description	Defines the instrument type of the underlying.
Format	Enumerated (character)
Length	1
Possible Values	C Commodity
	F Future
	I Index
	S Stock
	X Exchange Rate
Used In	DerivativesStandingDataFile (9013)
User For	Derivatives

Field Description

Venue

V

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	CashStandingDataFile (9007)

Revision History

1 t	
Version	Change Description
1.1.0	First Version
L.2.0	Specification changes:
	 In the Standing Data files, the feed configuration part has been improved. This imply structure changes.
	Chapter 2 added including Feed Configuration
	- In SBE Template the maximum, minimum and null values have been changed
	- File name convention changed.
	 Changed definition of Current folder to 5 rolling trading days.
	 Removed "version" from file name, will become a tag inside the files.
	Field changes:
	- "Strike Price Flex Increment" description improved
	 "Start Time Vwap" and "End Time Vwap" are cash only fields
	 "Primary Source IP Range" and "Secondary Source IP Range" has been renamed in "Source IP Range"
	- Multicast IP size changed
	 "Optiq Segment" possible values added
.3.0	Specification changes:
	 Renaming Retail Matching Service by Best of Book
	File changes:
	- FullTradeInformationFile (9030):
	 Following fields are now optional: "Publication Date Time", "MiFID Price Notation", "MMT Mar
	Mechanism", "MMT Publication Mode", "MMT Trading Mode", "MMT Transaction Category", "M
	Negotiation Indicator", "MMT Agency Cross Trade Indicator", "MMT Modification Indicator", "M
	Benchmark Indicator", "MMT Special Dividend Indicator", "MMT Off Book Automated Indicator", "M
	Contribution to Price", "MMT Algorithmic Indicator", "MMT Post Trade Deferral", "MMT Duplicat
	Indicator", "Effective Date Indicator", "Notional Currency", "Trade Type", "MiFID Currency", "Mi
	Notional Amount", "Venue", "MiFID Instrument Id" and "MiFID Instrument Id Type"
	 Following fields are set to null for step 1: "Mifid Price Notation", "MiFID Qty in Msrmt Unit Notation"
	"Mifid Quantity Measurement Unit", "Publication Date Time", "MMT Market Mechanism", "M
	Trading Mode", "MMT Transaction Category", "MMT Negotiation Indicator", "MMT Agency Cross Tra
	Indicator", "MMT Modification Indicator", "MMT Benchmark Indicator", "MMT Special Divide
	Indicator", "MMT Off Book Automated Indicator", "MMT Contribution to Price", "MMT Algorithm
	Indicator", "MMT Post Trade Deferral" and "MMT Duplicative Indicator"
	• "Venue Of Publication" has been removed
	 Trade Qualifier has 2 new possible values (only for phase 2): "NAV Trade expressed in bps" and "N
	Trade expressed in price currency"
	 "Trade Type" value "Valuation Trade" removed
	 "MMT Algorithmic indicator", "MMT Duplicative Indicator", "MMT Negotiation Indicator" and "M
	Special Dividend Indicator" are cash only not cash and derivatives
	 Fields "MiFID Emission Allowance Type" and "Market Of Reference MIC" added
	- TimetableFile (9001):
	 "Instrument State" field renamed into "Phase Id" and value halted removed
	 "EMM", "Symbol Index" and "Pattern ID" fields are now optional
	"Price Limits" and "Quote Spread Multiplier" fields removed "Trading Mode" Renamed in "Phase Qualifier" and values numbers changed (+1 for each value to av
	0)
	 "Trading Side" field removed CashStandingData (9007):
	 "Partition ID", "Nomincal Currency" and "Issue Price" added "Nominal Market Price" and "Page Settlement Price" removed
	 "Nominal Market Price" and "Repo Settlement Price" removed Following field are now optional: "Magnetic" "Two of Market Admission" and "Pattern ID"
	 Following field are now optional: "Mnemonic", "Type of Market Admission" and "Pattern ID" "Instrument Group Code" field is now mandatory.
	 "Instrument Group Code" field is now mandatory ""Analysis Mandatory
	 "Market Model" Field added "CEW" Still to use of the set
	• "CFI" field is mandatory
	- DerivativesStandingDataFile (9013):
	 Addition of: "Lot Size" and "Underlying Expiry", "Partition ID", "Outright LIS Trade Threshold ", "Strate
	LIS Trade Threshold ", "Outright G.Cross Threshold ", "Strategy G.Cross Threshold ", "Instrument Trad
	Code", "EMM", "Premium Pricing Threshold", "Tick Value" and "Premium Pricing Tick Size"
	 "Tick Size Denominator" renamed in "Instrument Decimals Ratio"
	 "Instrument Numerator EDSP" renamed in "Instrument EDSP Tick Size"
	 "Tick Size Numerator" renamed in "Instrument Tick Size"
	 "Strike Price Denominator" renamed in "Strike Price Decimals Ratio"
	 "Instrument Numerator Settlement" renamed into "Instrument Settlement Tick Size"

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Version	kets - Optiq® File Specifications Revision His Change Description
	 "Strategy Code" field added in a repeated section and is optional
	 following field are now optional: "Option Type" and "Strike Price"
	 "Instrument Unit Expression" field added
	- StrategyStandingDataUnitary:
	 "Price / Index Level Decimal", "Ratio / Multiplier Decimal", "Quantity Decimal" and "Amount Decimal"
	have been removed
	Field changes:
	 "EMM" field has a new possible value only for phase "2: ETF MTF – NAV Central Order Book" and Naming of possible values reviewed
	 "MiFID Execution ID": description improved with the details on how the value is generated "Currency Coefficient" description has been improved with the use of the decimal scale code
	- "Strike Price Flex Increment" description improved with the Decimal field to use
	- "Trade Type":
	 possible values "Delta Neutral Trade – Future Leg", "Total Traded Volume" and "Hidden Quantity" added
	 Value "26 – Delta Neutral – cash leg" is Cash Only and not Cash and Derivatives
	 "Par Value" field is now an amount instead of a price
	 "CFI" field description improved with the correct ISO and values removed. Please refer to the according ISO
	 "MIC" field is Cash and derivatives and not Cash Only
	 "Trading Mode" is now a 16bits fields (instead of 32)
	 Continuous Uncrossing value added in fields: "Instrument State" and "Phase Id"
	 "Order Entry Qualifier" a new value added "Cancel Only"
	 MIC field description improved with possible values on derivatives
	- EMM field: removed value Possible Value
	Specification changes:
	 In "Preface" part, a new scope "Trade Reporting and Publication" has been added.
	- In field descriptions, the format have been updated with the functional type instead of the technical one.
	 Section 1.3 File Name Convention: Version of the file removed from its name
	Message changes:
	- FullTradeInformationFile (9030):
	 "MiFID Instrument ID Type" and "MiFID Price Notation" fields are now with a format type as "Text"
	instead of "Alphanum id"
	 In "Trade Type" field the value "34 Delta Neutral Trade – Underlying Future Leg" is now "Derivatives
	Only" instead of "Cash and Derivatives"
	 "MiFID Price Notation": new possible value added (BAPO –Basis Point)
	 "MiFID Emission Allowance Type": OTHR added in the possible values (for others)
	 "Transaction Type" is now optional (not used for derivatives)
	- DerivativesStandingDataFile (9013):
	 "Throttle for Incoming Orders" field description improved
.4.0	 "Instrument Decimals Ratio" and "Strike Price Decimals Ratio" field description improved
.4.0	 OutrightStandingDataUnitary: "CFI" field is optional
	 StrategyStandingDataUnitary: field "Contract Symbol Index" added
	Field changes:
	 In "EMM" field, the word "APA" from value "Euronext APA off-exchange trade reports" has been removed
	 "Premium Pricing Tick Size" description corrected (it is not premium over the threshold but premium under the
	threshold)
	 "Trade Type": "Total Traded Volume" value not used any more
	 "Phase Time" way to provide time changed (from number of sec to hhmmss) "Chile Design Design Paris" and "Quantity Natation" fields description improved
	 "Strike Price Decimals Ratio" and "Quantity Notation" fields description improved
	- "Instrument Name" is cash only instead of Cash and Derivatives
	- "Instrument Decimals Ratio" description improved
	- "PhaseQualifier", "Trade Qualifier", "Order Type Rules" and "Available Wholesale Trade Type" field descriptions
	have been updated
	- "Channel ID" description has been improved
	 "Strategy Code": New value "U – Inter Commodity Spread" added
	Message changes:
	 FullTradeInformationFile (9030): MiFID Clearing Flag is now optional Designations Standing Data File (0013):
	- DerivativesStandingDataFile (9013):
	 Following fields are now optional when it contains underlying referential: "Contract Event Date", "Contract Trace" "Principal Joint Designable" "Output Designable" "Designable"
	"Contract Type", "Price / Index Level Decimals", "Quantity Decimals", "Amount Decimals", "Ratio /
1.4.1	Multiplier Decimals", "MIC", "Country Of Exchange", "Order Type Rules", "Settlement Method",
	"Available Wholesale Trade Type", "Strike Price Decimals Ratio", "Premium Pricing Tick Size", "Premium
	Pricing Threshold", "Tick Value", "Outright LIS Trade Threshold", "Strategy LIS Trade Threshold",
	 "Outright G.Cross Threshold" and "Strategy G.Cross Threshold" ○ Field "Underlying Instrument Trading Code" added

Version	1	iq® File Specifications Revision Hist Description
	-	Market Model is Cash only and not Cash and Derivatives
	Section	change:
	-	In MulticastDataRealTime and MulticastDataSnapshot sections, field Partition ID has been added
	1.	EURONEXT Optiq Market Data Gateway Solution:
	-	The SBETemplate file for Derivatives is located in the Environment folder
	-	The SBETemplate files for Step 2 are located in each <optiq segment=""> folder</optiq>
	-	The CashTickSizeReferentialFile is located as a cross Optiq Segment file in the Environment folder with 'ALL' in the
	_	name, but also in the per Optiq Segment folders. All files will have the same content. The Timetable files are now located in each Optiq Segment folder, and the Optiq Segment is included in the file
	-	name instead of 'ALL'
	-	File Naming Convention: Optig OEG file names will begin with ' OptigOEG '
	2.	File Overview changes:
	-	Rename 'Technical Format Fields' section into 'Functional Format Fields'
	-	'Technical Format Fields' section added
	-	Date Convention : 'Dates are defined in number of days' instead of 'Timestamps are defined in number of ns'
	3.	File Description changes:
	-	SBETemplate Files :
		 Only for Derivatives: The MDG SBE Template file is a cross Optiq Segment file, directly available in the Environment folder.
		 Environment folder, In Step 2: 2 SBE Template files are available : one for OEG and one for MDG. These files are stored in
		each <optigsegment> folder,</optigsegment>
		• About SBE Compatibility: Compatibility between MDG SBE template of step 1 and step 2 is not
		maintained.
	-	TimetableFile (9001) :
		 PhaseQualifier Optional instead of Mandatory
		 TradingPeriod Mandatory instead of Optional
		Session Mandatory instead of Optional
	-	CashStandingDataFile (9007) :
		 Description of the first structure updated : "As an example, Timestamps on the feed are provided on the feeding in number of ns since 1970 January the 1st."
		 Description of the third structure of the file added instead of 'for future use'
		 LogicalAccessConnectivity structure added as the third structure of the file
		 IssuePriceDecimals, StrikePriceDecimals, LiquidInstrumentIndicator and MarketOfReferenceMIC
		added
2.0.0		 FixPriceTick removed
	-	DerivativesStandingDataFile (9013) :
		 MIC Mandatory instead of Optional
		CountryOfExchange Mandatory instead of Optional
		 InstrumentEDSPTickSize Optional instead of Mandatory TickValueDecimals, PricingAlgorithm, UnderlyingSubtype, MotherStockISIN,
		ReferenceFutureContractSecGrp added at Contract level
		 DaysToExpiry added at Outright level
		• CFI added at Strategy level
		 LegPrice Optional instead of Mandatory
	-	FullTradeInformationFile (9030) :
		 Symbolindex Optional instead of Mandatory
		 MifidPrice Optional instead of Mandatory
		 TradeQualifier Optional instead of Mandatory
	4.	Field Description changes:
	-	Tech Format added for each field description AvailableWholesaleTradeType description improved
	_	DaysToExpiry added
	-	EMM :
		 Value 50 'Societe Generale Systematic Internaliser (SI)' removed
		 Value 254 'Not Applicable (For indices and iNAV)' becomes 99
	-	ExerStyle : Values 2 'Asian', 3 'Bermudan', 4 'Other' added
	-	FirstSettlementDate description updated
	-	FixPriceTick removed
	-	GuaranteeIndicator :
		Description updated Description updated
		• Possible values description updated
	-	IPAddressPrimary and IPAddressDR added IssuePrice description updated
		IssuePrice description updated IssuePriceDecimals created
		IssuingCountry description updated
		LegRatio description updated

Version	rrkets - Optiq® File Specifications Revision I Change Description
	- LiquidInstrumentIndicator added
	- LotSize description updated
	 MainDepositary description updated
	 MarketOfReferenceMIC description updated with '(For Future Use)'
	- MDGSetOfChannelsID :
	 Format switched from 'Numerical ID' to 'Enumerated'
	 Possible values updated
	- MIC description updated with the possible values
	- Remove 'For phase 1 this field is set to null' from the description of the fields MiFIDEmissionAllowanceType,
	MifidPriceNotation, MiFIDQtyinMsrmtUnitNotation, MifidQuantityMeasurementUnit,
	MMTAgencyCrossTradeIndicator, MMTAlgorithmicIndicator, MMTBenchmarkIndicator,
	MMTContributiontoPrice, MMTDuplicativeIndicator, MMTMarketMechanism, MMTModificationIndicator,
	MMTNegotiationIndicator, MMTOffBookAutomatedIndicator, MMTPostTradeDeferral,
	MMTSpecialDividendIndicator, MMTTradingMode, MMTTransactionCategory
	 MMTPublicationMode description updated
	- MotherStockISIN added
	 OptiqSegment : Value 8 'Commodities Derivatives' renamed to 'Commodity Derivatives'
	 OrderEntryQualifier : Value 4 'Order Entry Only' removed
	- OrderTypeRules description improved
	- PartitionType added
	- PhaseQualifier description improved
	- PriceMultiplier description updated
	 PricingAlgorithm added PublicationDataTime : Remove (For phase 1 this field is set to pull' from the description
	 PublicationDateTime : Remove 'For phase 1 this field is set to null' from the description ReferenceFutureContractSecGrp added
	- SettlementDelay description updated
	 SettlementDelay description durated SettlementMethod : Value 'O' 'Optional' added
	- StrategyCode :
	 Description updated
	 Value 'U' 'Inter Commodity Spread' removed
	- StrikePrice description updated
	- StrikePriceDecimals added
	- StrikePriceDecimalsRatio description updated
	- ThrottleforIncomingOrders description updated
	- TickValueDecimals added
	- TradeQualifier :
	 Description updated
	 Value 1 'Opening Trade' renamed to 'First Trade Price
	- TradeType :
	 Value 21 'SI Trade' removed
	 'For future use' added in value 33 'Dark Trade'
	 Value 35 'Hidden Quantity' removed
	 'For future use' added in value 36 'Total Traded Volume'
	 Value 37 'ETF-MTF NAV Trade (price in basis points) (Cash Only) - For future use' added
	 Value 38 'ETF-MTF NAV Dark Trade (price in basis points) (Cash Only) - For future use' added
	UnderlyingSubtype added
	 MDG Set Of Channels ID 10 – Société Générale Systematic Internalizer (SI) and 12 – Equity Off-Exchange Trade
	Reports removed
2.0.1	 Field PartitionID added in the MulticastDataRealTime and MulticastDataSnapshot XML structures in section 2.3
	- Feed Configuration
	New ICBCode field added to the section 3.2 CashStandingDataFile (9007)
	MDG Set Of Channels ID 9 renamed to Equities Dublin
.0.2	 MDG Set Of Channels ID 15 renamed to Euronext Dublin Indices Stills Drive field descriptions and added the field into heards, into the Drive field and and Destruction
	Strike Price field description updated : the field is to be calculated with Price/Index Level Decimals
	General:
	SBE Template Version added to the front page and to the Document History Section 4 Field Description:
	Section 4 Field Description:
	 Order Type Rules field: the values bit in position 2 - Stop / Stop Loss and bit in position 3 - Stop Limit are only for order
	OEG
2.0.3	Phase Qualifier field : value 0 – No Qualifier becomes deprecated
	 Strike Price field : the decimals field to be used for Cash instruments is Strike Price Decimals instead of Price/Inde Logi Pacingle
	Level Decimals
	3 values added to the Trade Type field :
	 42 = Large in Scale (LiS) Trade in basis points (Derivatives Only) 43 = Large in Scale (LiS) Package Trade in basis points (Derivatives Only)
	 43 = Large in Scale (LiS) Package Trade in basis points (Derivatives Only) 44 = Charter and Large in Scale (LiS) Trade in basis points (Derivatives Only)
	 44 = Strategy Leg Large in Scale (LiS) Trade in basis points (Derivatives Only)

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	Section 3.2 CashStandingDataFile (9007):
	 3 fields added to the message block: ThresholdLISPostTrade60mn; ThresholdLISPostTrade120mn; ThresholdLISPostTradeEOD
2.3.0	 New XML section ETFDataFromMarketOfReference added at the end of the file with the following fields: SixMonthsADVExchangeOfRef; AUM; BICMainDepositary; CutOffTime; DateNextTradableNAV;
21010	PublicationDateNextTradableNAV; DividendFrequency; MICExchangeOfReference; NameExchangeOfReference;
	ExpositionType; ICSD; IndexLeverage; IssuerName; LEICode; ListingDate; NAVCurrency; PreviousNAV;
	ReutersRICCode; TotalExpenseRatio; BloombergTickerCode; NAVPublicationTime; UMTF; UnderlyingName;
	UnderlyingReturnType; UnderlyingSegmentation; BpsLowCollar; BpsHighCollar
	Section 4 Field Description:
	27 fields from the new ETFDataFromMarketOfReference structure added
	Value 9 – Listed not traded added to the EMM field
	 Value 32 – ETF Access added to the MDG Set Of Channels ID field
	LiquidInstrumentIndicator field is now Cash and Derivatives, instead of Derivatives only
	MICList field is now Cash only, instead of Cash and Derivatives
	 Value 5 – Luxembourg Stock Exchange of the OptiqSegment field renamed to Bourse de Luxembourg
2.3.0	Value 'MOC' – Market On Close added to the PricingAlgorithm field
	TradeQualifier field:
	 "ETF MTF" renamed to "ETF Access" in the field description
	- Bit 7 – Deferred Publication (Cash Only) added
	TradeType field:
	 "For future use" removed from the value 33 = Dark Trade (Cash Only)
	 "Deprecated" added to the values 37 = ETF-MTF NAV Trade (price in basis points) (Cash Only) and 38
	= ETF-MTF NAV Dark Trade (price in basis points) (Cash Only)
	Section 3.2 CashStandingDataFile (9007):
2.3.1	 3 fields added to the message block: AssetClass / InstrumentCategory / InstrumentType
2.0.2	Section 4 Field Description:
	3 fields added: AssetClass / InstrumentCategory / InstrumentType
2.5.0	Section 3.2 CashStandingDataFile (9007):
	1 field added to the message block: ClosingPriceType
2.6.0	One value added to the OptiqSegment f ield: '14' Block
	Major update for the migration of the Derivatives Market to Optiq.
	Section 1.3 File Naming Convention with the addition of two new files generated by Optiq Segment once per day:
	DerivativesTickSizeFile and ReferenceSpreadsFile
	Section 3.2 CashStandingDataFile (9007):
	1 field with description update: InstrumentCategory
	2 fields moved from Common Standing Data to EMMPattern: LoteSize, InstUnitExp
	5 fields added to EMMPattern: BpsLowCollar, BpsHighCollar, BlockPriceControlID, DeclarationDuration,
	EligibleForMargin
	1 field deprecated: AssetClass
	Section 3.4 DerivativesStandingDataFile (9007):
	 Following fields are removed from ContractStandingDataUnitary: FlexID, WhRFCDaysBeforeExpiry,
	WhRFCMinutesBeforeClosing, MinimumQuantityForInitiator, MinimumQuantityForReactor, WhRFCPickUpPerc,
	WhRFCImprovementPeriod, AvailableWholesaleTradeType, InstrumentDecimalsRatio, InstrumentTickSize,
	VegaProtectforMM, DeltaProtectorforMM, VolumeProtectorforMM, ThrottleforIncomingOrders,
	StrikePriceFlexIncrement, PremiumPricingTickSize, PremiumPricingThreshold, TickValue,
	OutrightLISTradeThreshold, StrategyLISTradeThreshold, OutrightGCrossTradeThreshold,
	StrategyGCrossTradeThreshold, LotSize, TickValueDecimals, ReferenceFutureContractSecGrp, PriceAlgorithm
3.0.0	 Following fields UnderlyingSymbolIndex, TradingPolicy, ReferenceSpreadTableID, DerivativesMarketModel,
	TradingUnit, ReferencePriceOriginInOpeningCall, ReferencePriceOriginInContinuous,
	ReferencePriceOriginInTradingInterruption, CollarExpansionFactor, MMProtections added on
	ContractStandingDataUnitary
	 Fields InstrumentSettlementTickSize and InstrumentEDSPTickSize substituted for SettlementTickSize and
	EDSPTickSize, respectively.
	 Field StartegyAuthorized moved from Common Contract Standing Data to ContractEMMProperties
	 Addition of three structures:
	 Addition of three structures. Contract EMM properties structure with the following fields: EMM, TickSizeindexID, PatternID,
	LotSize, StrategyAuthorized, DynamicCollarLogic, CollarMaxUnhaltedNb, CollarUnhaltDelay
	 Derivatives Parameters Rep structure with the following fields: EMM, ParamName, ParamValue, ParamTupoOfEvorescion
	ParamTypeOfExpression
	- Logical Access Connectivity structure with the Partition information
	 Following fields DerivativesInstrumentTradingCode, DerivativesInstrumentType, ExpiryCycleType,
	UnderlyingDerivativesInstrumentTradingCode, UnderlyingSymbolIndex added on OutrightStandingDataUnitary

Version	Change Description					
	Addition of sections to detail new Optiq Files:					
	 Section 3.5 DerivativesTickSizeFile (9021) which contains information regarding the Ticks sizes applicable at contract level 					
	Section 3.8 ReferenceSpreadsFile (9045) which contains data to calculate dynamic collar reference price Section 3.11 TimeTable (9001):					
	Addition of ScheduledEvent field Field description updates: DaysToExpiry, IPAddressDR, IPAddressPrimary, LastTradingDate, LiquidInstrumentIndicator,					
	MDGSetOfChannelsID, MDGSetOfChannelsName, MinimumPrice, PartitionType, PatternD, PricingAlgorithm, TickSize, TickSizeIndexID, Venue, ReferenceSpreadExpression Section 3.6 FullTradeInformationFile (9021):					
	Addition of StartegyCode field					
3.0.1	Removal of tow duplicated fields (Instrument Unit expression and Lot Size) from Cash Standing Data file, removal of 5 fields not applicable to Euronext Markets from Cash Standing Data files.					
	 The following changes have been made: Fields name in messages have been renamed to be in line with produced files 					
	 Added section 2.6 "Derivatives parameters" Added section 2.7 "Drive Question Derivative Desimple" 					
	 Added section 2.7 "Price, Quantity, Ratio and Amount Decimals" The following changes have been updated in the existing file: 					
	 a) Cash Standing Data File (9007): Added field Asset Class (wrongly removed), BPS Low Collar, Bps High Collar, 					
	Block Price Control ID, Declaration Duration, Eligible For Margin;					
	 b) Derivatives Standing Data File (9013): Renamed 3 fields Reference Price Origin in respectively Reference Price Origin In Opening Call, Reference Price Origin In Continuous, Reference Price Origin in Trading Interruption in Contract Standing Data section; Added fields MIFID II Liquid Flag, Pricing Algorithm in Contract Standing Data section; Added field Trading Unit in Outright Standing Data section; Durit for Standing Data section; Added field Standing Data section; Added field Trading Unit in Outright Standing Data section; Deprecated field Lot Size in Outright Standing Data; 					
3.1.0	c) Reference Spreads File (9045): Renamed field Time To Expiry in TTE Range Lower Limit					
	Field Descriptions:					
	a) Updated description for field <i>Maturity Date</i> – now provide actual date of expiry instead of 00					
	b) Enriched conditions and descriptions for fields Collar Max Unhalt Nb; Collar Unhalt Delay; Dynamic Collar Logic;					
	Param Name; Strategy Authorized; Trading Unit c) Added new fields: MIFID II Liquid Flaq; Pricing Algorithm					
	 c) Added new fields: MIFID II Liquid Flag; Pricing Algorithm d) Enriched values for fields as follows: Contract Type – added value U = Underlying; Derivatives Instrument Type - 					
	added value 4 = Underlying (not used for Euronext Markets); <i>EMM</i> – added value 15 = Delta Neutral Contingency					
	leg; Optig Segment – added value 15 = Forex					
	e) Updated values for fields Param Name; Param Type of Expression;					
	f) Deprecated values for field <i>Strategy Code</i>					
	Formatting and clarification of descriptions					
	a) Updated formatting, and wording throughout the document to clarify existing functionality / use.					
	Add new exchange codes to be used for Oslo Market Place:					
	L : Oslo Cash Underlying					
	<u>N: Oslo Index Derivatives</u>					
3.1.2	<u>O: Oslo Equity Derivatives</u>					
	 MDG Feed Configuration for Oslo segments: two new MDGSetOfChannelsID: 10: Envitien Nerview 					
	10: Equities Norway 12: Fixed Income Nordic ABM					
	 Add new Optig Segment: ISE Bonds and Funds Feed 					
	New MICs added for OSLO market:					
3.1.3	- 'XOSL' – OSLO BORS ASA					
	- 'MERK' – MERKUR MARKET					
	- 'XOAS' – OSLO AXESS					
	- 'XOAM' – NORDIC ALTERNATIVE BOND MARKET					
	 Table of list of files per segment (page 6) updated: 					
	- For Dublin IBF segment only one file is generated : SBE Templates (for MDG and OEG).					
	Document Improvements:					
	- Support contact is updated.					
	- Associated document section is updated.					
	 Purpose section name updated to "About This Document". Table of list of files per segment updated (§1.2 – Access to File Server): 					
4.0.0	 Table of list of files per segment updated (§1.2 – Access to File Server): Removal of Financial Derivatives FID from the table. 					
	Document Improvements: Changing of the table available in Score section					
	 Changing of the table available in Scope section. Removal of Financial Derivatives Optig segment from the document. 					
	Removal of Further Information section The following change has been made to this version of the document:					
4.0.1	 In <u>Scope</u> removed SBE Version (this documentation is not linked to SBE version) 					
	= In <u>Scope</u> removed SDE version (this documentation is not IIII/Ed to SDE version)					

	rkets - Optiq® File Specifications	Revision Histo			
Version	Change Description				
4.2.0	Integration of Oslo Fixed Incomes:				
	 New value for Instrument Unit Exp: 				
	7 = Yield				
	 New field Non Anonymous in <u>CashStandingData (9007)</u>. 				
4.2.1	The following section has been updated:				
	In <u>CashStandingDataFile (9007)</u> Renamed "Non Anonymous" field into "Anonymous"				
	In <u>Field Description</u> : Updated description for Field "Anonymous"				
4.3.0	The following changes have been made to this version of the document:				
	 In <u>PhaseTime</u>, format is updated to reflect what is really sent (string and not integer) 				
4.4.0	Introduction of SBE 304 – no impacts				
4.5.0	Introduction of SBE 305 – no impacts				
4.6.0	Introduction of SBE 306 – no impacts				
<u>4.6.1</u>	The following changes have been made to this version of the document:				
	In DerivativesStandingDataFile (9013):				
	 Added field PRA ID in ContractStandingDataUnitary section 				
	- Added fields Observation Period and Observation Period Elapsed in OutrightStandingDataUnitary section	<u>on</u>			
	In Field Description:				
	- Added fields PRA ID. Observation Period and Observation Period Elapsed				

A.1 DOCUMENT HISTORY

Revision 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 optig 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	

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Revision No	Date	Author	Change Description		
4.2.0	13 May 2020	IT Solutions – FBO	Integration of Oslo Fixed Incomes: New value for Instrument Unit Exp: 7 = Yield New field Non Anonymous in <u>CashStandingData (9007)</u> .		
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		
<u>4.6.1</u>	<u>12 May 2021</u>	IT Market Services – WMA	New fields for Cash Settled contracts		