

## Document title

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

# Document type or subject

Optiq® Files Specifications

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115 EURONEXT

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# **PREFACE**

## **PURPOSE**

The purpose of this document is to describe all the file specifications 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, スロール Out of scope):

Products		
Equities	✓	
Funds	✓	
Fixed Income	✓	
Warrants and Certificates	✓	
Options	✓	
Futures	✓	
Commodities	✓	
Indices	✓	
Trade Reporting and Publication	✓	

## **ASSOCIATED DOCUMENTS**

Please read the following documents along with these specifications:

Title	Description
Euronext Cash and Derivatives Markets – Optiq MDG Client Specifications	Description of Market Data Gateway and all message structures
Euronext Optiq™ Market Data Gateway Production Environment	Description of the Production feed configuration
Euronext Optiq™ Market Data Gateway External User acceptance Environment	Description of the External User Acceptance feed configuration
Optiq Euronext File Services User Guide	EFS user guide

Please visit www.euronext.com/optiq.

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## **WHAT'S NEW?**

The following lists only the most recent modifications made to this version. For the Document History table see the <u>Document History</u>.

Version Number	Date	nge Description		
2.0.0	11 October 2017	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  - 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.  - There are now 2 SBE Template files: one for OEG and one for MDG  - The SBE Template files are now produced per Optiq Segment, and stored in each Optiq Segment folder  - 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: Optiq OEG file names will begin with 'OptiqOEG'  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,  - In Step 2: 2 SBE Template files are available: one for OEG and one for MDG. These files are stored in each <optiqsegment> folder,  - 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</optiqsegment></optiq>		

Version Number	Date	Change Description
		- CashStandingDataFile (9007) :
		<ul> <li>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."</li> </ul>
		<ul> <li>Description of the third structure of the file added instead of 'for future use'</li> </ul>
		<ul> <li>LogicalAccessConnectivity structure added as the third structure of the file</li> </ul>
		<ul> <li>IssuePriceDecimals, StrikePriceDecimals, LiquidInstrumentIndicator and MarketOfReferenceMIC added</li> </ul>
		FixPriceTick removed
		- DerivativesStandingDataFile (9013) :
		<ul> <li>MIC Mandatory instead of Optional</li> </ul>
		<ul> <li>CountryOfExchange Mandatory instead of Optional</li> </ul>
		<ul> <li>InstrumentEDSPTickSize Optional instead of Mandatory</li> </ul>
		<ul> <li>TickValueDecimals, PricingAlgorithm, UnderlyingSubtype,</li> <li>MotherStockISIN, ReferenceFutureContractSecGrp added at Contract level</li> </ul>
		<ul> <li>DaysToExpiry added at Outright level</li> </ul>
		<ul> <li>CFI added at Strategy level</li> </ul>
		<ul> <li>LegPrice Optional instead of Mandatory</li> </ul>
		- FullTradeInformationFile (9030) :
		<ul> <li>Symbolindex Optional instead of Mandatory</li> </ul>
2.0.0	11 October 2017	<ul> <li>MifidPrice Optional instead of Mandatory</li> </ul>
	2017	<ul> <li>TradeQualifier Optional instead of Mandatory</li> </ul>
		4. Field Description changes:
		- <b>Tech Format</b> added for each field description
		- AvailableWholesaleTradeType description improved
		- DaysToExpiry added
		- <b>EMM</b> :
		<ul> <li>Value 50 'Societe Generale Systematic Internaliser (SI)' removed</li> </ul>
		<ul> <li>Value 254 'Not Applicable (For indices and iNAV)' becomes 99</li> </ul>
		- ExerStyle: Values 2 'Asian', 3 'Bermudan', 4 'Other' added
		- FirstSettlementDate description updated
		- FixPriceTick removed
		- GuaranteeIndicator :
		<ul> <li>Description updated</li> </ul>
		<ul> <li>Possible values description updated</li> </ul>
		- IPAddressPrimary and IPAddressDR added
		- IssuePrice description updated
		- IssuePriceDecimals created
		- IssuingCountry description updated
		- LegRatio description updated
		- LiquidInstrumentIndicator added
		- LotSize description updated
		- MainDepositary description updated

Version Date Number	e Cha	ange Description
	October 7	- 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, MiFIDEmissionAllowanceType, MifidPriceNotation, MiFIDQtyinMsrmtUnitNotation, MifidQuantityMeasurementUnit, MMTAgencyCrossTradeIndicator, MMTContributiontoPrice, MMTDuplicativeIndicator, MMTMeschanism, MMTModificationIndicator, MMTDuplicativeIndicator, MMTMarketMechanism, MMTModificationIndicator, 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 improved - PriceMultiplier description updated - PricingAlgorithm added - PublicationDateTime : Remove 'For phase 1 this field is set to null' from the description - ReferenceFutureContractSecGrp added - SettlementDelay description updated - SettlementDelay description updated - StrikePriceDecimals added - StrikePriceDecimals added - StrikePriceDecimals added - StrikePriceDecimals added - ThrottleforIncomingOrders description updated - TickValueDecimals added - TradeQualifier : - Description updated - TradeQualifier : - Description updated

Version Number	Date	Change Description
2.0.0	11 October 2017	- TradeType:
		For future use' added - UnderlyingSubtype added

## **FURTHER INFORMATION**

- For additional product information please visit: <u>www.euronext.com/optiq</u>
- For updated capacity figures and details of IP addresses please visit: <u>www.euronext.com/optiq</u>

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# 1. EURONEXT OPTIQ MARKET DATA GATEWAY SOLUTION

### 1.1 INTRODUCTION

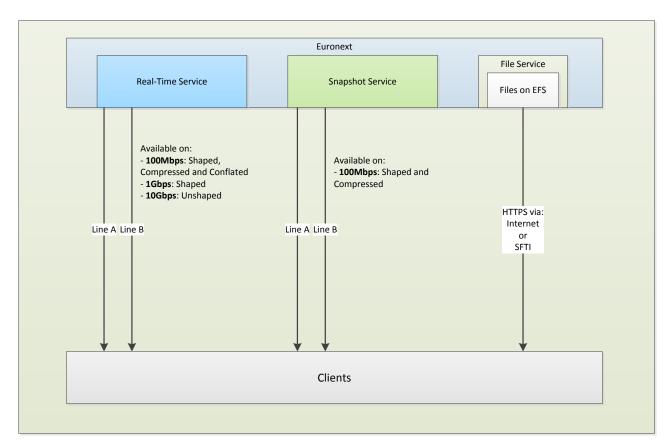
This document details the Referential Data HTTPS Server for Euronext, to be used in conjunction with the Optiq MDG Client Specifications.

The Servers provide full referential data for the Euronext markets, as well as feed configurations and intraday trades with their MiFID II flags. Users of the Euronext market data feed should use the Servers to:

- Configure feed connections every day.
- Support the referential data that is disseminated on the feed.
- Complete their list of trades.

#### 1.2 ACCESS TO FILE SERVER

Access to Euronext File Server (EFS) in p-EUA and production is only available through Internet and SFTI using HTTPS protocol.



Access to p-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 (available here: https://www.euronext.com/sites/www.euronext.com/files/)

External clients have a read only access that allow to download files but not to upload or modify files.

The HTTPS protocol server details can be found in Euronext Optiq™ Market Data Gateway External User acceptance Environment.

Below is the folder structure that will contain files for 5 rolling trading days:

Architecture	Description	
OptiqMDG	Defines that all the following files are Optiq files for Market Data	
<sup>L</sup> Environment	Defines if this is in "Production", "v-EUA" or "p-EUA"	
<sup>L</sup> Current	For the current day file.	
<sup>L</sup> OptiqSegment	Defines the segment on Optiq	
<sup>L</sup> Current	For the current day file.	

Immediately in Environment folder are:

- CashTickSizeReferentialFile
- SBETemplate (only for Derivatives)

# And In OptiqSegment:

- OpenInterestFile
- PrevDayCapAndVolTradeFile
- FullTradeInformationFile
- CashStandingDataFile
- DerivativesStandingDataFile
- SBETemplates (Step 2)
- TimetableFile
- CashTickSizeReferentialFile

#### 1.3 FILE NAMING CONVENTION

The files are of different types:

- Cross Optiq Segment Files, i.e. a unique file is generated for all Optiq Segments.
- Files generated by Optiq Segment, once a day.
- Files generated by Optiq Segment, several times a day.

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

# **Cross Optiq Segment Files generated once a day**

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 will 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 current trading date with format 'YYYYMMDD'

The files concerned are the following:

- CashTickSizeReferentialFile
- SBETemplate (only for Derivatives)

Example of the Cash Tick Size Referential File generated in Production on the 1<sup>st</sup> of June 2017: **OptiqMDG\_Production\_CashTickSizeReferentialFile\_ALL\_20170601.xml**.

And it will be located in:

OptiqMDG

L Production

L CashTickSizeReferentialFile

L Current

## Files generated by Optiq Segment once a day

Files generated by Optiq Segment once a day will have the following naming convention: <OptiqGateway>\_<Environment>\_<FileName>\_<OptiqSegment>\_<Date>.xml Where :

- OptigGateway is 'OptigMDG', for MDG files or 'OptigOEG', for OEG files
- Environment, FileName and OptiqSegment are the same as defined in folder structure.
- Date is the current trading date with format 'YYYYMMDD'

The files concerned are the following:

- OpenInterestFile
- PrevDayCapAndVolTradeFile
- CashStandingDataFile
- DerivativesStandingDataFile
- SBETemplates (Step 2)
- TimetableFile
- CashTickSizeReferentialFile

Example of the Open Interest File generated in Production on 1<sup>st</sup> of June 2017, on the 'Options' Optiq Segment:

 $Optiq MDG\_Production\_OpenInterest\_Options\_20170601.xml$ 

# Files generated by Optiq Segment more than once a day

Files generated by Optiq Segment once a day will have the following naming convention: <OptiqGateway>\_<Environment>\_<FileName>\_<OptiqSegment>\_<Date>\_<Time>.xml Where:

- OptiqGateway is 'OptiqMDG', for MDG files or 'OptiqOEG', for OEG files
- Environment, FileName and OptigSegment are the same as defined in folder structure.
- Date is the current trading date with format 'YYYYMMDD'
- Time is the current trading time with format 'HHMMSS'

Currently, the only file concerned is the FullTradeInformationFile.

Example of the Full Trade Information File generated in Production on the  $1^{st}$  of June 2017 at midday (12h00), on the 'Equities' Optiq Segment:

OptiqMDG Production FullTradeInformationFile Equities 20170601 120000.xml

And it will be located in:

OptiqMDG

L Production

L FullTradeInformationFile

L Equities

L Current

### 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 and we will keep the supported versions available on the sever. For more information on Backward and forward compatibility of SBE, please refer to the client MDG specifications: Euronext Cash and Derivatives Markets — Optiq MDG Client Specifications.

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. We will only provide the latest version of the file for the current trading day.

# 2. FILE OVERVIEW

The aim of this section is to describe the fields types used in the reference data files.

## 2.1 FUNCTIONAL FORMAT FIELDS

<b>Functional Format</b>	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

Technical Format	Description
unsigned integer 16	2 bytes unsigned numerical field
unsigned integer 32	4 bytes unsigned numerical field
unsigned integer 64	8 bytes unsigned numerical field
XML date	Date displayed in 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:mmm $\mu\mu\mu$ nnnZ where "mmm" indicate the milliseconds " $\mu\mu\mu$ " 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  $1^{st}$  (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, 2 timestamps, based on ISO 8601 are possible. 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

## 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	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, only instruments belonging to the Equities Optiq Segment can have more than one repeating section, for example an instrument belonging to Equities Optiq Segment can have repeating sections:

- 1. ID=5 Equities France
- 2. ID=11 Best of Book (Retail Matching Facility)
- 3. ID=10 Société Générale Systematic Internaliser (SI)

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 UK
10	Société Générale Systematic Internalizer (SI)

11	Best of Book (BoB)
12	Equity Off-Exchange Trade Reports
13	Euronext Indices
14	Euronext iNAVs
15	Third Party Indices
16	Commodity Derivatives
17	Currency Futures
18	Currency Options
19	AtomX (for Flex Contracts)
20	Equity Options France
21	Equity Options Netherlands
22	Equity Options Other
23	Index Options France
24	Index Options Netherlands
25	Index Options Other
26	Equity and Index Futures France
27	Equity and Index Futures Netherlands
28	Equity and Index Futures Other

At end of the Standing Data file, 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.

SetOf	Channe	els				
	MDG	Set Of Channels ID	Identifier of an MDG Set Of Channels.	unsigned integer 16	2	From 0 to 65534
	MDGSetOfChannelsName  Channels		Name of the MDG Set Of Channels.	string	100	(See field description)
	Chanı	nels				
-	Ch	nannelType	Defines the channel.	string	4	(See field description)
	M	lulticastDataRealTime				
		ChannelID	Identifies the channel.	unsigned integer 16	2	From 0 to 65534

hannalCnaad	Defines the Channel handwidth	string	4	100M 100Mbps
<u>hannelSpeed</u>	Defines the Channel bandwidth.	string	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
				Channel
lulticastA				
SourcelPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)
DRSourcelPRang <u>e</u>	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
MulticastA				
lulticastB				
<u>SourceIPRange</u>	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
DRSourcelPRang <u>e</u>	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				
ticastDataRealTim				
castDataSnapshot				
hannelID	Identifies the channel.	unsigned integer 16	2	From 0 to 65534
hannelSpeed	Defines the Channel bandwidth.	string	4	100M 100Mbps Channel 1G 1Gbps Channel 10G 10Gbps Channel
lulticastA				
SourceIPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description)
DRSourcelPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description)
	DRSourcelPRang e  MulticastGroupl P PortNumber  MulticastB  SourcelPRange  DRSourcelPRange  MulticastGroupl P PortNumber  MulticastB  ticastDataRealTim  dicastDataRealTim  dicastDataSnapshot  hannelID  hannelSpeed  DRSourcelPRange	DRSourcelPRange   Defines the primary and secondary IP range (IP v4).	ItulticastA  SourceIPRange Defines the primary and secondary IP range (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).  MulticastGroupl PortNumber Defines the IP number. Unsigned integer 16  WulticastA  ItulticastB  SourceIPRange Defines the primary and secondary IP range (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).  MulticastGroupl PortNumber Defines the IP number (IP v4).  String Defines the Port number.  unsigned integer 16  MulticastB  ticastDataRealTim  icastDataSnapshot hannelID Identifies the channel. unsigned integer 16  hannelSpeed Defines the Channel bandwidth.  string  TulticastA  SourceIPRange Defines the primary and secondary IP range (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).  DRSourceIPRange Defines the Disaster Recovery IP address /25 range number (IP v4).	DRSourcelPRange   Defines the primary and secondary IP range (IP v4).

		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
	/N	/lulticastA				
	М	ulticastB				
		SourcelPRange	Defines the primary and secondary IP range (IP v4).	string	20	(See field description) (See field description)
		DRSourceIPRang e	Defines the Disaster Recovery IP address /25 range number (IP v4).	string	20	(See field description) (See field description)
		MulticastGroupl P	Defines the IP number (IP v4).	string	15	(See field description) (See field description)
		<u>PortNumber</u>	Defines the port number.	unsigned integer 16	2	From 0 to 65534
	/MulticastB  /MulticastDataSnapsho t					
1	/Channel	s				
/SetOfC	Channels					

## 3. FILE DESCRIPTION

### 3.1 SBE TEMPLATE FILES

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

- Only for Derivatives: The MDG SBE Template file is a cross Optiq Segment file, directly available in the Environment folder,
- <u>In Step 2:</u> 2 SBE Template files are available : one for OEG and one for MDG. These files are stored in each <OptigSegment> folder.

All SBE tools and documentation needed to generate (encode and decode) SBE messages will be 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 fields
- The list of all possible values for each Bitmap fields
- The structure of each message with the expected order of each fields

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

Full and detailed message structures are specified in the **Euronext Cash and Derivatives Markets – Optiq MDG Client Specifications**.

## File Availability:

Available 24/7.

### **Scope of contents:**

All Euro

One file per Optiq Segment.

next segments and all SBE messages for Market Data.

#### Important note:

Compatibility between MDG SBE template of step 1 and step 2 is not maintained.

Until further communication, and to reduce impact on clients not impacted by migration to step 2 in production the MDG SBE template is kept in the root folder with "ALL" in the name and will apply only to the Derivative segments.

## 3.2 CASHSTANDINGDATAFILE (9007)

The Cash Standing Data file provides referential data for cash markets.

The file provides three structures per instrument breakdown.

- 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 are also available in this section.

The only difference between the feed and the file relies in the format on which some data are provided.

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 are disseminated for the given instrument, which access depends on client authorization.
- The third structure provides connectivity information for all Cash Order entry gateways of the concerned Optiq Segment and the associated Drop Copy (DC) gateway.

		_			
Fil	e A	vai	lal	hi	lity:

Available 24/7.

Scope of contents:

Cash instruments.

Intraday updates:

This file will be updated overnight.

Fie	eld	Short Description	Format	Len	Values	Presence	Page
Ca	shStandingDataFile						
	StandingDataUnitar Y						
	Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
	OptiqSegment	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory	80
	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
	FullInstrumentNa me	Full Instrument Name.	Text	102	(See field description)	Optional	57
	InstrumentName	Instrument Name	Text	18	(See field description)	Mandatory	59
	InstrumentTradin gCode	Is the AMR code on derivatives and the Trading Code on cash.	Alphanumerical ID	15	(See field description)	Optional	59
	InstrumentGroup Code	Instrument Group / Class Identifier.	Alphanumerical ID	2	(See field description)	Mandatory	58
	ISINCode	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory	61
	PriceDecimals	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Mandatory	86

d	<b>Short Description</b>	Format	Len	Values	Presence	Pag
QuantityDecimals	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	88
AmountDecimals	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	4
Ratio Decimals	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Mandatory	8
CFI	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Mandatory	4.
InstrumentEvent Date	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	8	(See field description)	Mandatory	5
StrikePrice	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	9
DarkEligibility	Indicates the Eligibility to dark.  0 is not eligible, 1 is eligible.	Boolean	1	0 = False 1 = True	Optional	5
DarkLISThreshold	Defines the minimum amount of an order to benefit from the LIS (Large In Scale) pretransparency waiver.	Amount	8	From 0 to 2^64-2	Optional	5
DarkMinQuantity	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	From 0 to 2^32-2	Optional	5
DateOfLastTrade	Date of the Last Price for the Instrument (Format YYYYMMDD).	Date	8	(See field description)	Optional	5
DepositaryList	Identifies the possible main depository organizations (maximum four) for shares or fixed income.	Text	20	(See field description)	Optional	5
MainDepositary	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	6
FirstSettlementD ate	Represents the first possible settlement date for a given instrument.	Date	8	(See field description)	Optional	5

d	Short Description	Format	Len	Values	Presence	Page
GuaranteeIndicat or	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	57
ICB	Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification.	Alphanumerical ID	16	(See field description)	Optional	57
IssuingCountry	Issuing country.	Alphanumerical ID	3	(See field description)	Optional	61
LastAdjustedClosi ngPrice	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	62
LotSize	For cash instruments with Quantity Notation = "UNT": The Lot Size is the minimum tradable quantity that is set for each instrument by the Exchange. The quantity has to be a multiple of the Lot Size.	Quantity	8	From 0 to 2^64-2	Optional	64
MaturityDate	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Optional	65
MaximumDecima IsInQuantity	Maximum Decimals In Quantity was introduced for Euronext Fund Services Paris and indicates the maximum of relevant decimal number for trading.	Numerical	1	From 0 to 2^8-2	Optional	66
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	67
MICList	Identifies the Euronext markets on which an instrument is listed by its MIC (Market Identification Code).	Alphanumerical ID	20	(See field description)	Optional	68
CountryOfExchan ge	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumerical ID	3	(See field description)	Optional	51

d	Short Description	Format	Len	Values	Presence	Page
Mnemonic	Mnemonic code of the instrument. This field is not populated for every instrument.	Alphanumerical ID	5	(See field description)	Optional	78
UnderlyingMIC	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	103
UnderlyingISINCo de	Underlying ISIN.	Alphanumerical ID	12	(See field description)	Optional	102
TradingCurrency	Code of the currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional	99
CurrencyCoefficie nt	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	From 0 to 2^32-2	Optional	51
TradingCurrencyI ndicator	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	99
StrikeCurrencyInd icator	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	93
NumberInstrume ntCirculating	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	From 0 to 2^64-2	Optional	79
ParValue	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	From 0 to 2^64-2	Optional	83
QuantityNotation	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	88
InstUnitExp	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional	60

d	<b>Short Description</b>	Format	Len	Values	Presence	Pag
SettlementDelay	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	90
StrikeCurrency	Code of the strike currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional	93
TaxCode	Tax deduction code to which the instrument belongs.	Enumerated	1	0 = Not eligible to PEA 3 = Eligible to PEA 9 = Not Applicable	Optional	95
TypeOfCorporate 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. This data has to be treated in consideration of the date of the event included into the header of the message.	Alphanumerical ID	2	(See field description)	Optional	10
TypeOfMarketAd mission	Indicates the type of market to which an instrument has been listed.	Enumerated	1	(See field description)	Optional	10
RepoIndicator	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	89
IssuePrice	Issuing price of the instrument (to be calculated with Issue Price Decimals).	Price	8	From -2^63+1 to 2^63-1	Optional	61
NominalCurrency	Code of the nominal currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Optional	79
IssuePriceDecimal s	Indicates the number of decimals for Issue Price related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	61
StrikePriceDecim als	Indicates the number of decimals for Strike Price related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	94
LiquidInstrumentI ndicator	Indicates whether the instrument is liquid or not, as defined per MiFID II. (0 = Illiquid; 1 = Liquid)	Boolean	1	0 = False 1 = True	Optional	63

ld	Short Description	Format	Len	Values	Presence	Page
MarketOfReferen ceMIC	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	65
EMMPattern						
EMM	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory	54
PatternID	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	From 0 to 2^16-2	Optional	83
TickSizeIndexID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	From 0 to 2^16-2	Optional	96
MarketModel	Market Model identifier.	Enumerated	1	(See field description)	Optional	65
/EMMPattern						
MDGSetOfChann els						
MDGSetOfCha nnelsID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory	66
MDGSetOfCha nnelsName	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory	67
/MDGSetOfChan nels						
StandingDataUnita y						
etOfChannels						
MDGSetOfChann elsID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory	66
MDGSetOfChann elsName	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory	67
Channels						
ChannelType	Defines the channel.	Enumerated	4	(See field description)	Mandatory	49
MulticastData RealTime						
ChannelID	Identifies the channel.	Numerical	2	From 0 to 2^16-2	Mandatory	48
ChannelSpe ed	Defines the Channel bandwidth.	Enumerated	4	100M = 100Mbps Channel 1G = 1Gbps Channel 10G = 10Gbps Channel	Mandatory	49
PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
MulticastA						

l		Short Description	Format	Len	Values	Presence	Page
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
1	'MulticastA						
D	MulticastB						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
/	'MulticastB						
	ulticastDat ealTime						
-	lticastData pshot						
C	ChannelID	Identifies the channel.	Numerical	2	From 0 to 2^16-2	Mandatory	48
	ChannelSpe ed	Defines the Channel bandwidth.	Enumerated	4	100M = 100Mbps Channel 1G = 1Gbps Channel 10G = 10Gbps Channel	Mandatory	49
F	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
N	MulticastA						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
_	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
/	'MulticastA						
N	MulticastB						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number	Text	20	(See field description)	Mandatory	53

		1					
Field		<b>Short Description</b>	Format	Len	Values	Presence	Page
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
	/MulticastB						
	/lulticastDat napshot						
/Cha	nnels						
/SetOf0	Channels						
Logical/ ctivity	AccessConne						
Parti	tion						
Pa	rtitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
IP/ ar	AddressPrim Y	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	60
IP/	AddressDR	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	60
Pa	rtitionType	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	83
/Part	tition						
/Logical	lAccessConn						
/CashStan	dingDataFile						

## 3.3 CASHTICKSIZEREFERENTIALFILE (9020)

General characteristics of the Cash Tick Size file

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, this is associated to an instrument class level. If an instrument uses specific variable ticksizes, which are different than the Class, the specific table index will figure in the Instrument Standing Data.

Fixed ticksizes are actually also included in the ticksize, 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 is the following: a tick size table for Cash 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.

Fiel	ld	Short Description	Format	Len	Values	Presence	Page
Cas alFi	hTickSizeReferenti le						
C	CashTickSizes						
	TickSizeIndexID	ID of the tick size table available in the Tick Table file.	Numerical ID	2	From 0 to 2^16-2	Mandatory	96
	CashTickSize						
	MinimumPrice	Minimum Price of the order. Price with decimals on x characters, with '.' as a separator	Price	32	(See field description)	Mandatory	72
	TickSize	Tick Size applied between the current Minimum Price and the next Minimum Price. Tick size on x characters, with . as a separator	Price	32	(See field description)	Mandatory	96
	/CashTickSize						
/	CashTickSizes						
/Ca	shTickSizeReferent ile						

# 3.4 DERIVATIVESSTANDINGDATAFILE (9013)

The Derivatives Standing Data file provides all referential data for derivatives markets.

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

On a contract based breakdown, data will be provided with a file with one nested structure. Following that, at a contract level, two sections will be added to deal respectively with MD connectivity and in the future with OE connectivity.

Fil	le	А١	ıai	la	hi	litι	,
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Available 24/7.

Scope of contents:

Derivative instruments.

Intraday updates:

This file will be updated overnight.

Fi	eld	Short Description	Format	Len	Values	Presence	Page
	erivativesStandingDa File						
	ContractStandingDa taUnitary						
	Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
	OptiqSegment	An Optiq segment is a universe of instruments sharing common trading properties.	Enumerated	1	(See field description)	Mandatory	80
	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
	ContractEventDat e	Date of the last contract characteristics modification(s) except for some exceptions.	Date	8	(See field description)	Optional	49
	ExchangeCode	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory	55
	ExerStyle	Type of exercise of a derivatives instrument	Enumerated	1	(See field description)	Optional	56
	FlexInd	Indicates whether a derivatives instrument can be defined using flexible terms, or not.	Boolean	1	0 = False 1 = True	Mandatory	56
	ContractName	Contract Name	Text	60	(See field description)	Mandatory	50
	ContractType	Generic Contract Type.	Enumerated	1	F = Future O = Option	Optional	50
	UnderlyingType	Defines the instrument type of the underlying.	Enumerated	1	(See field description)	Mandatory	104

d	Short Description	Format	Len	Values	Presence	Page
PriceDecimals	Indicates the number of decimals for each Price / Index Level related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	86
QuantityDecimals	Indicates the number of decimals for each Quantity related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	88
AmountDecimals	Indicates the number of decimals for each Amount related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	47
Ratio Decimals	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	88
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	64
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	67
CountryOfExchan ge	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.	Alphanumerical ID	3	(See field description)	Mandatory	51
ProductCode	Physical alphanumerical product code.	Alphanumerical ID	3	(See field description)	Mandatory	87
UnderlyingMIC	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	103
UnderlyingISINCo de	Underlying ISIN.	Alphanumerical ID	12	(See field description)	Optional	102
UnderlyingExpiry	Expiry Date of the underlying (in number of days since the 1st of January 1970).	Date	4	From 0 to 2^32-2	Optional	102
OrderTypeRules	Order types supported by the matching engine.	Bitmap	2	(See field description)	Optional	81
SettlementMetho d	Settlement method	Alphanumerical ID	1	(See field description)	Optional	90
TradingCurrency	Code of the currency (ISO 4217-3A).	Alphanumerical ID	3	(See field description)	Mandatory	99

d	Short Description	Format	Len	Values	Presence	Page
WhRFCDaysBefor eExpiry	Wholesale RFC Days Before Expiry defines the number of days (0 to 99) from expiry from which the RFC will no longer be available. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.	Numerical	1	From 0 to 2^8-2	Optional	105
WhRFCMinutesBe foreClosing	Wholesale RFC Minutes Before Close allows the setup of the number of minutes (1 to 99) from market close from which the RFC will be deactivated.	Numerical	1	From 0 to 2^8-2	Optional	106
Minimum Quantit y For Initiator	Wholesale RFC Minimum Quantity defines the minimum quantity required to submit an RFC as initiator. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.	Quantity	4	From 0 to 2^32-2	Optional	72
MinimumQuantit yForReactor	Wholesale RFC Min Qty defines the minimum quantity required to submit a response to the RFC during the Improvement period. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.	Quantity	4	From 0 to 2^32-2	Optional	73
WhRFCPickUpPer c	Defines the percentage of the RFC Initiator quantity that is available for RFC responses during the final execution at the RFC price. This pick up percentage is not relevant during the final execution with RFC responses improving the RFC Price. Available only for Wholesale Trade Type = 9.	Numerical	1	From 0 to 2^8-2	Optional	106
WhRFCImprovem entPeriod	Wholesale RFC Improvement Period is the number of seconds that defines the duration of the RFC Improvement Period. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.	Numerical	1	From 0 to 2^8-2	Optional	106
AvailableWholesa leTradeType	Wholesale trade type supported by the trading host.	Bitmap	4	(See field description)	Optional	47
InstrumentDecim alsRatio	Default ratio used in Order Entry for prices computation.	Numerical	1	From 0 to 2^8-2	Mandatory	57
InstrumentTickSiz e	Default Tick Size value applicable for all series that belong to the contract - numerator	Numerical	1	From 0 to 2^8-2	Mandatory	59
InstrumentSettle mentTickSize	Default Tick Size value applicable for all Settlement Prices - numerator.	Numerical	1	From 0 to 2^8-2	Mandatory	59

d	Short Description	Format	Len	Values	Presence	Page
InstrumentEDSPTi ckSize	Specific Tick Size value applicable for EDSP - numerator	Numerical	1	From 0 to 2^8-2	Optional	58
StrikePriceDecim alsRatio	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	From 0 to 2^8-2	Optional	94
DeltaProtectforM M	Delta Protection for Market Makers Level.	Enumerated	1	0 = Protection for Market Makers enabled at a contract level 1 = Protection for Market Makers enabled at a contract and expiry level.	Optional	53
VegaProtectforM M	Vega Protection for Market Makers Level.	Enumerated	1	0 = Protection for Market Makers enabled at a contract level 1 = Protection for Market Makers enabled at a contract and expiry level.	Optional	104
VolumeProtectfor MM	Volume Protection for Market Makers Level.	Enumerated	1	0 = Protection for Market Makers enabled at a contract level 1 = Protection for Market Makers enabled at a contract and expiry level.	Optional	10!
ContractTradingT ype	Contract Trading Type.	Enumerated	1	1 = Traded as an outright 2 = Not traded, but listed in contract data. Traders may subscribe to it 3 = Traded as a simple inter-commodity spread 4 = Traded as an inter-commodity spread	Mandatory	50
ThrottleforIncomi ngOrders	Defines the number of order messages that a session on the Order Entry Gateway can submit per second in a particular contract.	Numerical	2	From 0 to 2^16-2	Mandatory	95

d	Short Description	Format	Len	Values	Presence	Pag
StrikePriceFlexInc rement	Strike Price increment for flex contracts (To be calculated with Price / Index Level Decimals).	Numerical	4	From 0 to 2^32-2	Optional	94
PremiumPricingTi ckSize	Specific Tick Size value applicable for the instrument for premium under the threshold defined in Premium Pricing Threshold field.	Numerical	1	From 0 to 2^8-2	Optional	85
PremiumPricingT hreshold	Premium threshold defining the change of Tick Size to be applied from the default one provided in Instrument Tick Size field to the one provided in Premium Pricing Tick Size field.	Numerical	8	From 0 to 2^64-2	Optional	85
TickValue	Used to compute the Valuation Coefficient: allows the calculation of the amount in a currency which should be paid by the buyer to the seller for a given price, for a trading lot	Numerical	8	From 0 to 2^64-2	Optional	96
TickValueDecimal s	Indicates the number of decimals for Tick Value related to this Symbol Index	Decimal Places	1	From 0 to 2^8-2	Optional	97
OutrightLISTrade Threshold	Wholesale LIS Trade Threshold checked for Order Cross submission.	Numerical	8	From 0 to 2^64-2	Optional	82
StrategyLISTradeT hreshold	Wholesale Strategy LIS Trade Threshold checked for Order Cross submission.	Numerical	8	From 0 to 2^64-2	Optional	93
OutrightGCrossTr adeThreshold	Wholesale Guaranteed Trade Threshold checked for Order Cross submission.	Numerical	8	From 0 to 2^64-2	Optional	82
StrategyGCrossTr adeThreshold	Wholesale Strategy Guaranteed Cross Trade Threshold checked for Order Cross submission.	Numerical	8	From 0 to 2^64-2	Optional	92
LotSize	For cash instruments with Quantity Notation = "UNT": The Lot Size is the minimum tradable quantity that is set for each instrument by the Exchange. The quantity has to be a multiple of the Lot Size.	Quantity	8	From 0 to 2^64-2	Mandatory	64
InstUnitExp	Unit in which the instrument is quoted.	Enumerated	1	(See field description)	Optional	60
PricingAlgorithm	Pricing Algorithm for the Contract.	Alphanumerical ID	3	(See field description)	Optional	8
UnderlyingSubtyp e	Defined the underlying sub- type associated to the underlying type.	Enumerated	1	(See field description)	Optional	10
MotherStockISIN	ISIN Code of the index underlying of the TRF contract.	Text	12	(See field description)	Optional	7

d	<b>Short Description</b>	Format	Len	Values	Presence	Pag
ReferenceFutureC ontractSecGrp	Exchange Code, Contract Type and Product code of the future contract.	Text	5	(See field description)	Optional	89
Strategy Codes rep1						
StrategyCode	Exchange-recognized strategy code	Enumerated	1	(See field description)	Optional	9:
/Strategy Codes rep1						
OutrightStanding DataUnitary						
Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	9
ContractSymbo IIndex	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	From 0 to 2^32-2	Mandatory	5
InstrumentEve ntDate	Date of the last instrument characteristic modification(s) except for some exceptions.	Date	8	(See field description)	Mandatory	5
ISINCode	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory	6
CFI	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Optional	4
MaturityDate	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Mandatory	6
OptionType	Type of the option.	Enumerated	1	1 = Call 2 = Put	Optional	8
InstrumentTra dingCode	Is the AMR code on derivatives and the Trading Code on cash.	Alphanumerical ID	15	(See field description)	Mandatory	5
LotSize	For cash instruments with Quantity Notation = "UNT": The Lot Size is the minimum tradable quantity that is set for each instrument by the Exchange. The quantity has to be a multiple of the Lot Size.	Quantity	8	From 0 to 2^64-2	Mandatory	6
StrikePrice	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	g
LastTradingDat e	Last available trading date for the instrument (Format YYYYMMDD).	Date	8	(See field description)	Optional	ε

d	Short Description	Format	Len	Values	Presence	Pag
UnderlyingInstr umentTradingC ode	Is the underlying AMR code on derivatives and the Trading Code on cash.	Alphanumerical ID	15	(See field description)	Optional	10
DaysToExpiry	Number of Calendar days until the Last Trading Day of the Expiry.	Numerical	2	From 0 to 2^16-2	Optional	52
OutrightStandi ngDatarep						
ЕММ	Defines the Exchange Market Mechanism applied on each platform.	Enumerated	1	(See field description)	Mandatory	54
/OutrightStan dingDatarep						
/OutrightStandin gDataUnitary						
StrategyStanding DataUnitary						
Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
InstrumentTra dingCode	Is the AMR code on derivatives and the Trading Code on cash.	Alphanumerical ID	15	(See field description)	Mandatory	59
ExchangeCode	Indicates the Market Place.	Enumerated	1	(See field description)	Mandatory	55
MaturityDate	Maturity Date of the instrument (text formatted as YYYYMMDD).	Text	8	(See field description)	Mandatory	65
StrategyCode	Exchange-recognized strategy code	Enumerated	1	(See field description)	Mandatory	91
ContractSymbo IIndex	Identifies the contract of this instrument by its Symbol Index.	Numerical ID	4	From 0 to 2^32-2	Mandatory	50
CFI	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	Text	6	(See field description)	Optional	48
StrategyStandi ngDatarep						
LegSymbolIn dex	MDG proprietary identification code of the instrument leg for the strategy.	Numerical ID	4	From 0 to 2^32-2	Mandatory	63
LegPrice	Price of underlying leg for a delta neutral strategy (to be calculated with the Price/Index Level Decimals).	Price	8	From -2^63+1 to 2^63-1	Optional	63
LegRatio	Ratio of lots for the leg. For contingent trades, the delta (to be calculated with the Amount Decimals).	Quantity	4	From 0 to 2^32-2	Mandatory	63
LegBuySell	Leg Side.	Enumerated	1	B = Buy S = Sell	Mandatory	62
/StrategyStand ingDatarep						

ield		<b>Short Description</b>	Format	Len	Values	Presence	Page
	StrategyStandin DataUnitary						
N el	1DGSetOfChann Is						
T	MDGSetOfCha nnelsID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory	66
	MDGSetOfCha nnelsName	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory	67
•	MDGSetOfChan els						
	ntractStandingD Jnitary						
SetC	OfChannels						
	1DGSetOfChann IsID	Identifier of an MDG Set Of Channels.	Enumerated	1	(See field description)	Mandatory	66
	1DGSetOfChann IsName	Name of the MDG Set Of Channels.	Text	100	(See field description)	Mandatory	67
Cl	hannels						
	ChannelType	Defines the channel.	Enumerated	4	(See field description)	Mandatory	49
	MulticastData RealTime						
	ChannelID	Identifies the channel.	Numerical	2	From 0 to 2^16-2	Mandatory	48
	ChannelSpe ed	Defines the Channel bandwidth.	Enumerated	4	100M = 100Mbps Channel 1G = 1Gbps Channel 10G = 10Gbps Channel	Mandatory	49
	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
	MulticastA						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
	/MulticastA						
	MulticastB						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78

Field		Short Description	Format	Len	Values	Presence	Page
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
	/MulticastB						
	IulticastDat ealTime						
	ulticastData						
	apshot				- 0. 0.160		
_	ChannelID	Identifies the channel.	Numerical	2	From 0 to 2^16-2	Mandatory	48
	ChannelSpe ed	Defines the Channel bandwidth.	Enumerated	4	100M = 100Mbps Channel 1G = 1Gbps Channel 10G = 10Gbps Channel	Mandatory	49
ŀ	PartitionID	Identifies uniquely an Optiq partition across all the Exchange partitions.	Numerical ID	2	From 0 to 2^16-2	Mandatory	82
ı	MulticastA						
_	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
1	/MulticastA						
ſ	MulticastB						
	SourceIPR ange	Defines the primary and secondary IP range (IP v4).	Text	20	(See field description)	Mandatory	91
	DRSource IPRange	Defines the Disaster Recovery IP address /25 range number (IP v4).	Text	20	(See field description)	Mandatory	53
	Multicast GroupIP	Defines the IP number (IP v4).	Text	15	(See field description)	Mandatory	78
	PortNum ber	Defines the port number.	Numerical	2	From 0 to 2^16-2	Mandatory	85
/	/MulticastB						
	IulticastDat napshot						
/Chan	nnels						
/SetOfCl	hannels						
/Derivative	esStandingD						

### 3.5 FULLTRADEINFORMATIONFILE (9030)

General characteristics of the Full Trade Information file

The Full Trade Info file contains comprehensive MiFID II-compliant information for trades executed during the day.

MiFID II flags are populated using the Market Model Typology (MMT) in version 3.0. For more information please visit: http://www.fixtradingcommunity.org/pg/group-types/mmt

#### File availability

This file will be delivered every 15 minutes to allow customers the ability to download trades they have missed, some of these may be via the Market Data feed. This file also allows Customers to download all trades at the end of day after trading hours.

#### Scope of contents

One file will be generated per Optiq Segment. Each file delivered will contain the information previously delivered in addition to the new information.

#### Intraday updates

Intraday updates will be performed every 15 minutes.

#### File naming convention

"OptiqMDG\_Environment\_FullTradeInformationFile\_OptiqSegment\_YYYYMMDD\_HHMMSS\_Version"

Fie	eld	Short Description	Format	Len	Values	Presence	Page
Ful ile	lTradeInformationF						
I	FullTradeInfo						
	EventTime	Time when an event has been processed (Text formatted following ISO 8601: hh:mm:ss.mmmµµµnnnZ	Epoch Time in Nanoseconds	19	(See field description)	Mandatory	55
	SymbolIndex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Optional	95
	TradingDateTime	Date and time when the transaction was executed.	Text	27	(See field description)	Mandatory	99
	PublicationDateTi me	Date and time when the transaction was published by a trading venue or Approved Publication Arrangement (APA).	Text	27	(See field description)	Optional	87
	TradeType	Type of trade.	Enumerated	1	(See field description)	Mandatory	98
	MifidInstrumentI dType	Code type used to identify the financial instrument.	Text	4	(See field description)	Optional	70
	MifidInstrumentI D	Code used to identify the financial instrument. This code has to be processed with the MiFID Instrument ID Type.	Alphanumerical ID	12	(See field description)	Optional	69

d	Short Description	Format	Len	Values	Presence	Pag
MifidExecutionID	MiFID Transaction Identification Code is composed of the Symbol Index (on 10 characters), the EMM (on 3 characters) and the Execution ID (on 10 characters). It is a unique Execution ID by instrument per day on the different available EMM.	Alphanumerical ID	52	(See field description)	Mandatory	69
MifidPrice	Traded price of the transaction excluding, where applicable, commission and accrued interest.	Text	20	(See field description)	Optional	7(
MifidQuantity	Number of units of the financial instrument. The nominal or monetary value of the financial instrument.	Text	20	(See field description)	Mandatory	7:
MifidPriceNotatio n	Indication as to whether the price is expressed in monetary value, in percentage or in yield.	Text	4	(See field description)	Optional	7:
MifidCurrency	Currency in which the price is expressed (applicable if the price is expressed as monetary value) following ISO 4217 standard.	Alphanumerical ID	3	(See field description)	Optional	6
MiFIDQtyinMsrmt UnitNotation	Indication of measurement units in which the quantity in measurement unit is expressed.	Text	25	(See field description)	Optional	7
MifidQuantityMe asurementUnit	The equivalent amount of commodity or emission allowance traded expressed in measurement unit	Text	20	(See field description)	Optional	7
MiFIDNotionalAm ount	Nominal amount or notional amount.	Text	20	(See field description)	Optional	7
NotionalCurrency	Currency in which the notional is denominated following ISO 4217 standard.	Alphanumerical ID	3	(See field description)	Optional	7
MiFIDClearingFlag	Code to identify whether the transaction will be cleared.	Text	5	(See field description)	Optional	6
MMTMarketMec hanism	Defines the fundamental functional market mechanism that has facilitated the trade following MMT level 1.	Enumerated	1	(See field description)	Optional	7
MMTTradingMod e	Differentiates transactions by defining the trading mode under which the trade was executed following MMT level 2.	Enumerated	1	(See field description)	Optional	7
MMTTransaction Category	Defines the transaction category following MMT level 3.1.	Text	4	(See field description)	Optional	7

d	Short Description	Format	Len	Values	Presence	Page
MMTNegotiationI ndicator	Defines the negotiation indicator or pre-trade transparency waiver following MMT level 3.2.	Text	4	(See field description)	Optional	75
MMTAgencyCross TradeIndicator	Defines the agency cross trade indicator following MMT level 3.3.	Text	4	(See field description)	Optional	73
MMTModificatio nIndicator	Defines the modification indicator following MMT level 3.4.	Text	4	(See field description)	Optional	75
MMTBenchmarkI ndicator	Defines the benchmark indicator or the reference price indicator following MMT level 3.5.	Text	4	(See field description)	Optional	73
MMTSpecialDivid endIndicator	Defines the special dividend indicator following MMT level 3.6.	Text	4	(See field description)	Optional	77
MMTOffBookAut omatedIndicator	Defines the off book automated indicator following MMT level 3.7.	Enumerated	1	M = Off Book Non-Automated Q = Off Book Automated - = (Hyphen) Unspecified or does not apply	Optional	75
MMTContribution toPrice	Defines the contribution to price or the price discovery process following MMT level 3.8.	Text	4	(See field description)	Optional	74
MMTAlgorithmicI ndicator	Defines the algorithmic indicator following MMT level 3.9.	Text	4	(See field description)	Optional	73
MMTPublication Mode	Defines the publication mode or post-trade deferral reason following MMT level 4.1.	Text	4	(See field description)	Optional	76
MMTPostTradeD eferral	Defines the post trade deferral or enrichment type following MMT level 4.2.	Text	4	(See field description)	Optional	76
MMTDuplicativel ndicator	Defines the duplicative indicator following MMT level 5.	Text	4	(See field description)	Optional	74
TradeQualifier	Trade Qualifier. Values specified, in the list of possible values, indicate the bit positions that should be used to set zero (0) or one (1) values. A single field contains multiple values provided in different positions.	Bitmap	1	(See field description)	Optional	97
TransactionType	Transaction type or publication type.	Enumerated	1	(See field description)	Optional	100

d	Short Description	Format	Len	Values	Presence	Pag
EffectiveDateIndi cator	Indicates if the trade is introduced on the trading session day or earlier.	Enumerated	1	0 = If the seller declaration is received on the current trading session day 1 = If seller declaration is received before the current trading session day	Optional	54
BlockTradeCode	Indicates if trade relates to a block or a negotiated deal following MiFID rules.	Enumerated	1	B = Block Trade N = Regular trade or Negotiated deal - = (Hyphen) Undefined	Optional	48
TradeReference	Reference of the trade reported to the Exchange.	Alphanumerical ID	30	(See field description)	Optional	98
OriginalReportTi mestamp	Timestamp of trade reporting to the Exchange (Text formatted following ISO 8601: hh:mm:ss.mmmμμμnnnZ	Epoch Time in Nanoseconds	19	(See field description)	Optional	8:
TransparencyIndi cator	Used to define the transparency of the trade.	Enumerated	1	0 = Lit/Regular Trade 1 = Dark Trade and Immediate Publication 2 = Dark Trade and Deferred Publication	Optional	10
CurrencyCoefficie nt	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	From 0 to 2^32-2	Optional	5
PriceMultiplier	Number of units of the financial instrument that are contained in a trading lot. Price multiplier coefficient for instrument unit price.	Numerical	4	From 0 to 2^32-2	Optional	80
PriceMultiplierDe cimals	Number of decimals for the field Price Multiplier.	Numerical	1	From 0 to 2^8-2	Optional	86
Venue	Identification of the venue where the transaction was executed using the ISO 10383 segment MIC for transactions executed on a trading venue.	Alphanumerical ID	11	(See field description)	Mandatory	10

Field	Short Description	Format	Len	Values	Presence	Page
StartTimeVwap	Start time for the Volume Weight Average price computation period (Text formatted following ISO 8601: hh:mm:ssZ where Z stands for UTC).	Intraday Time in Seconds	9	(See field description)	Optional	91
EndTimeVwap	End time for the Volume Weight Average price computation period (Text formatted following ISO 8601: hh:mm:ssZ where Z stands for UTC).	Intraday Time in Seconds	9	(See field description)	Optional	54
MiFIDEmissionAll owanceType	This field is only applicable for emission allowances.	Text	4	(See field description)	Optional	69
MarketOfReferen ceMIC	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	65
/FullTradeInfo						
/FullTradeInformation File						

### 3.6 OPENINTERESTFILE (9014)

Open Interest file provide open interest information provided by LCH on derivatives instruments.

File Availability:

Available 24/7.

Scope of contents:

Derivative instruments.

Intraday updates:

XML file will be created as soon as the open interest file is received from LCH.

Fie	ld	Short Description	Format	Len	Values	Presence	Page
Ор	enInterestFile						
,	OpenInterestUnitar /						
	Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
	ISINCode	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory	61
	OpenInterestDate	Open interest date (Format YYYYMMDD).	Date	8	(See field description)	Mandatory	80

F	ield	Short Description	Format	Len	Values	Presence	Page
	OpenInterest	Open interest.	Quantity	8	From 0 to 2^64-2	Mandatory	79
	/OpenInterestUnita ry						
/	OpenInterestFile						

#### 3.7 PREVDAYCAPANDVOLTRADFILE (9015)

Previous Day Capital and Volume Traded file provide : 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 these information will be available.

Field		<b>Short Description</b>	Format	Len	Values	Presence	Page
PrevDayCa dFile	pAndVolTra						
PrevDay TradCore	CapAndVol eUnitary						
Symbo	olindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
ISINCo	ode	Instrument ISIN following ISO 6166.	Alphanumerical ID	12	(See field description)	Mandatory	61
PrevD aded	ayCapitalTr	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	From 0 to 2^64-2	Mandatory	85
Previo raded	usVolumeT	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	From 0 to 2^64-2	Mandatory	86
	yCapAndVo eUnitary						

Field	Short Description	Format	Len	Values	Presence	Page
/PrevDayCapAndVolTr adFile						

#### 3.8 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 these information will be available in the morning (for previous day value).

Fi	eld	Short Description	Format	Len	Values	Presence	Page
Re	epoSettlementPriceF						
	RepoSettlementPric eUnitary						
	Symbolindex	Exchange identification code of the instrument.	Numerical ID	4	From 0 to 2^32-2	Mandatory	95
_	RepoSettlementP rice	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	89
	/RepoSettlementPri ceUnitary						
/R Fil	epoSettlementPrice e						

#### 3.9 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.

File Availability:

Available 24/7.

Scope of contents:

All the Exchange segments for Market Data.

Intraday updates:

This file will be updated overnight.

d	Short Description	Format	Len	Values	Presence	Pag
etableFile						
attern						
PatternID	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	From 0 to 2^16-2	Mandatory	83
Phase						
PhaseTime	Time of Phase start (Text formatted following ISO 8601: hh:mm:ssZ where Z is for UTC").	Integer Time in hhmmss	9	(See field description)	Mandatory	84
PhaseId	Indicates the phase of the instrument. The length for this field is maximum possible value length.	Enumerated	50	(See field description)	Mandatory	83
PhaseQualifier	Indicates the Phase Qualifier (no multiple phase possible at the same time even if this field is a bitmap).	Bitmap	2	(See field description)	Optional	84
TradingPeriod	Provides the current trading period.	Enumerated	1	1 = Opening (Cash and Derivatives) 2 = Standard (Cash and Derivatives) 3 = Closing (Cash and Derivatives)	Mandatory	10
OrderEntryQua lifier	Field indicating the state of the Order Entry for the current market state.	Enumerated	1	0 = Order Entry/Cancel/Mo dify Disabled 1 = Order Entry/Cancel/Mo dify Enabled 2 = Cancel and Modify Only (Derivatives Only) 3 = Cancel Only	Optional	8:
Session	Current market session.	Enumerated	1	(See field description)	Mandatory	91
/Phase						

Field	Short Description	Format	Len	Values	Presence	Page
/Pattern						
/TimetableFile						

## 4. FIELD DESCRIPTION



### **AmountDecimals**

Field Name	Amount Decimals	
Description	Indicates the number of decimals for each Amount related to this Symbol Index	
Used For	Cash and Derivatives	
Format	Decimal Places	
Tech Format	unsigned integer 8	
Length	1	
Possible Values	From 0 to 2^8-2	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	

## ${\bf Available Wholes ale Trade Type}$

Field Name	Australia Whalesola Tanda Tuna	
Field Name	Available Wholesale Trade Type	
Description	Wholesale trade type supported by the trading host.	
	Until phase 3, this has to be combined with the field WholesaleTradeType from the New Order Cross message in Order Entry Gateway:	
	- bit in position 0 - Large in Scale Trade (Formerly Block Trade) (0: No ; 1: Yes) is the value '1' in WholesaleTradeType	
	- bit in position 1 - Basis Trade (0: No ; 1: Yes) is the value '2' in WholesaleTradeType	
	- bit in position 2 - Against Actual (0: No ; 1: Yes) is the value '3' in WholesaleTradeType	
	- bit in position 3 - Asset Allocation (0: No ; 1: Yes) is the value '4' in WholesaleTradeType	
	- bit in position 4 - Large In Scale Package Trade (0: No ; 1: Yes) is the value '5' in WholesaleTradeType	
	- bit in position 5 - Guaranteed Cross Trade (0: No ; 1: Yes) is the value '6' in WholesaleTradeType	
	- bit in position 6 - Exchange For Swap (0: No ; 1: Yes) is the value '7' in WholesaleTradeType	
	- bit in position 7 - Request For Cross (0: No ; 1: Yes) is the value '9' in WholesaleTradeType	
	Format: Numerical value expressed in base 2, prefixed with '0b'.	
Used For	Derivatives	
Format	Bitmap	
Tech Format	unsigned integer 32	
Length	4	
Possible Values	0 = Large in Scale Trade (Formerly Block Trade)	
	1 = Basis Trade	
	2 = Against Actual	
	3 = Asset Allocation	
	4 = Large In Scale Package Trade (former Prof Trade)	
	5 = Guaranteed Cross Trade	
	6 = Exchange For Swap	
	7 = Request For Cross	
Used In	DerivativesStandingDataFile (9013)	



### BlockTradeCode

Field Name	Block Trade Code	
Description	Indicates if trade relates to a block or a negotiated deal following MiFID rules.	
Used For	Cash	
Format	Enumerated	
Tech Format	character	
Length	1	
Possible Values	B = Block Trade	
	N = Regular trade or Negotiated deal	
	- = (Hyphen) Undefined	
Used In	FullTradeInformationFile (9030)	



### CFI

Field Name	CFI	
Description	Classification code of a financial instrument defined by the ISO-10962:2015 standard.	
Used For	Cash and Derivatives	
Format	Text	
Tech Format	character	
Length	6	
Possible Values	(See field description)	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	

## **ChannelID**

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).	
Used For	Cash and Derivatives	
Format	Numerical	
Tech Format	unsigned integer 16	
Length	2	
Possible Values	From 0 to 2^16-2	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	

# ChannelSpeed

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

## ChannelType

Field Name	Channel Type	
Description	Defines the channel.	
Used For	Cash and Derivatives	
Format	Enumerated	
Tech Format	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	
Used In	CashStandingDataFile (9007)	
	DerivativesStandingDataFile (9013)	

### ContractEventDate

Field Name	Contract Event Date	
Description	Date of the last contract characteristics modification(s) except for some exceptions.	
	The following exceptions (since they are modified every day) are not updating the Event Date and allow members to know when a change occurs on instrument characteristics:	
	- Previous day's adjusted closing price (LastAdjPrice)	
	- Previous day capital traded (Prev Day Capital Traded)	
	- Number of shares for this instrument traded on previous day (Previous Volume Traded)	
	- Instrument last traded date (DateOfLastTrade)	
	(Format YYYYMMDD).	
Used For	Derivatives	
Format	Date	
Tech Format	XML date	
Length	8	
Possible Values	(See field description)	
Used In	DerivativesStandingDataFile (9013)	

### ContractName

Field Name	Contract Name
Description	Contract Name
Used For	Derivatives
Format	Text
Tech Format	character
Length	60
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

# ContractSymbolIndex

Field Name	Contract Symbol Index
Description	Identifies the contract of this instrument by its Symbol Index.
Used For	Derivatives
Format	Numerical ID
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

## ContractTradingType

Field Name	Contract Trading Type	
Description	Contract Trading Type.	
Used For	Derivatives	
Format	Enumerated	
Tech Format	unsigned integer 8	
Length	1	
Possible Values	1 = Traded as an outright	
	2 = Not traded, but listed in contract data. Traders may subscribe to it	
	3 = Traded as a simple inter-commodity spread	
	4 = Traded as an inter-commodity spread	
Used In	DerivativesStandingDataFile (9013)	

## ContractType

Field Name	Contract Type
Description	Generic Contract Type.
Used For	Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	F = Future

	O = Option
Used In	DerivativesStandingDataFile (9013)

## CountryOfExchange

Field Name	Country Of Exchange
Description	Country of exchange is the Country associated to the MIC following ISO 3166 Alpha-3.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# CurrencyCoefficient

Field Name	Currency Coefficient
Description	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).
	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 Indicator is then set to 1), and/or for the Derivatives and Warrants Instrument Strike Price (the Referential field Strike Currency Indicator is then set to 1).
Used For	Cash
Format	Numerical ID
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	CashStandingDataFile (9007)
	FullTradeInformationFile (9030)



## **DarkEligibility**

Field Name	Dark Eligibility
Description	Indicates the Eligibility to dark. 0 is not eligible, 1 is eligible.
Used For	Cash
Format	Boolean
Tech Format	unsigned integer 8
Length	1

Possible Values	0 = False
	1 = True
Used In	CashStandingDataFile (9007)

### **DarkLISThreshold**

Field Name	Dark LIS Threshold
Description	Defines the minimum amount of an order to benefit from the LIS (Large In Scale) pre-transparency waiver.
Used For	Cash
Format	Amount
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	CashStandingDataFile (9007)

## **DarkMinQuantity**

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.
Used For	Cash
Format	Quantity
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	CashStandingDataFile (9007)

### **DateOfLastTrade**

Field Name	Date Of Last Trade
Description	Date of the Last Price for the Instrument (Format YYYYMMDD).
Used For	Cash
Format	Date
Tech Format	XML date
Length	8
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

# **DaysToExpiry**

Field Name	Days To Expiry
Description	Number of Calendar days until the Last Trading Day of the Expiry.
Used For	Cash
Format	Numerical
Tech Format	unsigned integer 16

Length	2
Possible Values	From 0 to 2^16-2
Used In	DerivativesStandingDataFile (9013)

### **DeltaProtectforMM**

Field Name	Delta Protect for MM
Description	Delta Protection for Market Makers Level.
Used For	Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Protection for Market Makers enabled at a contract level
	1 = Protection for Market Makers enabled at a contract and expiry level.
Used In	DerivativesStandingDataFile (9013)

## DepositaryList

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
Used For	Cash
Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

# DRSourcelPRange

Ī	Field Name	DR Source IP Range
	Description	Defines the Disaster Recovery IP address /25 range number (IP v4).
	Used For	Cash and Derivatives
	Format	Text

Tech Format	character
Length	20
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)



## **EffectiveDateIndicator**

Field Name	Effective Date Indicator
Description	Indicates if the trade is introduced on the trading session day or earlier.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = If the seller declaration is received on the current trading session day
	1 = If seller declaration is received before the current trading session day
Used In	FullTradeInformationFile (9030)

### **EMM**

Field Name	EMM
Description	Defines the Exchange Market Mechanism applied on each platform.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Cash and Derivative Central Order Book (COB)  2 = NAV Trading Facility [C]  4 = Derivative Wholesales [D]  5 = Cash On Exchange Off book [C]  6 = Euronext off-exchange trade reports  7 = Derivative On Exchange Off book [D]  8 = ETF MTF - NAV Central Order Book [C]  99 = Not Applicable (For indices and iNAV) [C]
Used In	CashStandingDataFile (9007) DerivativesStandingDataFile (9013)

## **EndTimeVwap**

Field Nar	ne End Time Vwap
Descripti	End time for the Volume Weight Average price computation period (Text formatted following ISO 8601: hh:mm:ssZ where Z stands for UTC).
Used F	Or Cash
Form	at Intraday Time in Seconds

Tech Format	XML timeSec
Length	9
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

### **EventTime**

Field Name	Event Time
Description	Time when an event has been processed (Text formatted following ISO 8601: hh:mm:ss.mmmµµµnnnZ
	where
	mmm for the milliseconds
	µµµ for the microseconds
	nnn for the nanoseconds
	Z is for UTC").
Used For	Cash and Derivatives
Format	Epoch Time in Nanoseconds
Tech Format	XML timeNano
Length	19
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# ExchangeCode

Field Name	Exchange Code
Description	Indicates the Market Place.
Used For	Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	A = Amsterdam Equity Derivatives
	B = Brussels Equity Derivatives
	C = Paris Equity Underlyings
	D = Brussels Cash Underlyings
	F = Brussels Index Derivatives
	G = Amsterdam Cash Underlyings
	H = Lisbon Cash Underlyings
	J = Paris Index Derivatives
	K = Amsterdam Index Derivatives
	M = Lisbon Index Derivatives
	P = Paris Equity Derivatives
	R = Amsterdam Commodities Derivatives
	S = Lisbon Equity Derivatives
	Y = Paris Commodities Derivatives
	Z = Amsterdam Currency Derivatives
Used In	DerivativesStandingDataFile (9013)

# ExerStyle

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



## **FirstSettlementDate**

Field Name	First Settlement Date
Description	Represents the first possible settlement date for a given instrument.
	This information is always populated when instruments are admitted to listing / trading under an As If and When Issued / Delivered scheme (or "Promesses").
	When this date is not provided, it means that the first possible settlement date is the same as the first trading date.(Format YYYYMMDD).
Used For	Cash
Format	Date
Tech Format	XML date
Length	8
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

## FlexInd

Field Name	Flex Indicator
Description	Indicates whether a derivatives instrument can be defined using flexible terms, or not.
Used For	Derivatives
Format	Boolean
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = False
	1 = True
Used In	DerivativesStandingDataFile (9013)

### **FullInstrumentName**

Field Name	Full Instrument Name
Description	Full Instrument Name.
Used For	Cash
Format	Text
Tech Format	character
Length	102
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)



### GuaranteeIndicator

Field Name	Guarantee Indicator
Description	Indicates if the trade is guaranteed or not (for clearing purpose)
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = This instrument is not guaranteed
	1 = This instrument is guaranteed
	2 = This instrument is not clearable
	8 = This instrument is part of Cleared Borrowing and Lending Service (CBLM) and is guaranteed
Used In	CashStandingDataFile (9007)



### **ICB**

Field Name	ICB
Description	Identifies for a listed instrument, the economic subsector of the issuing company in the ICB (Industry Classification Benchmark) classification.
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	16
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

## InstrumentDecimalsRatio

-		
	Field Name	Instrument Decimals Ratio

Description	Default ratio used in Order Entry for prices computation.
	When entering a price if 2 is given in this field for the designated contract, and client enters an order on a series that belongs to it with a price set at 14500 – the functional value of the entered price is 145.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

## InstrumentEDSPTickSize

Field Name	Instrument EDSP Tick Size
Description	Specific Tick Size value applicable for EDSP - numerator
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

## InstrumentEventDate

Field Name	Instrument Event Date
Description	Date of the last instrument characteristic modification(s) except for some exceptions.
	The following exceptions (since they are modified every day) are not updating the Event Date and allow members to know when a change occurs on instrument characteristics:
	- Previous day's adjusted closing price (LastAdjPrice)
	- Previous day capital traded (Prev Day Capital Traded)
	- Number of shares for this instrument traded on previous day (Previous Volume Traded)
	- Date instrument last traded (DateOfLastTrade)
	(Format YYYYMMDD).
Used For	Cash and Derivatives
Format	Date
Tech Format	XML date
Length	8
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## **InstrumentGroupCode**

	Field Name	Instrument Group Code
	Description	Instrument Group / Class Identifier.
	Used For	Cash
ĺ	Format	Alphanumerical ID

Tech Format	character
Length	2
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

### **InstrumentName**

Field Name	Instrument Name
Description	Instrument Name
Used For	Cash
Format	Text
Tech Format	character
Length	18
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

### InstrumentSettlementTickSize

Field Name	Instrument Settlement Tick Size
Description	Default Tick Size value applicable for all Settlement Prices - numerator.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

### InstrumentTickSize

Field Name	Instrument Tick Size
Description	Default Tick Size value applicable for all series that belong to the contract - numerator
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

## Instrument Trading Code

Field Name	Instrument Trading Code
Description	Is the AMR code on derivatives and the Trading Code on cash.
	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.
	Derivatives: The AMR code is a 15-character string, allocated by the trading engine. It is unique per

	instrument.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	15
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## InstUnitExp

Field Name	Instrument Unit Expression
Description	Unit in which the instrument is quoted.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Units
	2 = Percentage of Nominal Excluding Accrued Interest (Clean)
	3 = Basis Points
	5 = Percentage of Nominal Including Accrued Interest (Dirty)
	8 = Kilograms
	9 = Ounces
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

### **IPAddressDR**

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).
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	15
Possible Values	Valid IP v4 address
Used In	CashStandingDataFile (9007)

# **IPAddressPrimary**

Field Name	IP Address Primary
Description	IP Address of the Primary and Secondary (backup) access to the gateway. Provided for all environments (IP v4).
Used For	Cash and Derivatives
Format	Text
Tech Format	character

	Length	15
Ī	Possible Values	Valid IP v4 address
Ī	Used In	CashStandingDataFile (9007)

### **ISINCode**

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.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	12
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
	OpenInterestFile (9014)
	PrevDayCapAndVolTradFile (9015)

## **IssuePrice**

Field Name	Issue Price
Description	Issuing price of the instrument (to be calculated with Issue Price Decimals).
Used For	Cash
Format	Price
Tech Format	signed integer 64
Length	8
Possible Values	From -2^63+1 to 2^63-1
Used In	CashStandingDataFile (9007)

## **IssuePriceDecimals**

Field Name	Issue Price Decimals
Description	Indicates the number of decimals for Issue Price related to this Symbol Index
Used For	Cash
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	CashStandingDataFile (9007)

# **IssuingCountry**

me Issuing Country	Field Name	
issuing Country	i icia ivaliic	

Description	Issuing country.
	Provides the ISO 3166 (Alpha 3) code for the country of headquarter company that issued the instrument.
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)



# ${\bf Last Adjusted Closing Price}$

Field Name	Last Adjusted Closing Price
Description	Last traded price of the previous trading day after application of the adjustment coefficient (to be calculated with the Price/Index Level Decimals).
	Not provided for European instruments.
Used For	Cash
Format	Price
Tech Format	signed integer 64
Length	8
Possible Values	From -2^63+1 to 2^63-1
Used In	CashStandingDataFile (9007)

# LastTradingDate

Field Name	Last Trading Date
Description	Last available trading date for the instrument (Format YYYYMMDD).
Used For	Cash and Derivatives
Format	Date
Tech Format	XML date
Length	8
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

# LegBuySell

Field Name	Leg Buy or Sell
Description	Leg Side.
Used For	Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	B = Buy
	S = Sell

Used In   DerivativesStandingDataFile (9013)
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## LegPrice

Field Name	Leg Price
Description	Price of underlying leg for a delta neutral strategy (to be calculated with the Price/Index Level Decimals).
Used For	Derivatives
Format	Price
Tech Format	signed integer 64
Length	8
Possible Values	From -2^63+1 to 2^63-1
Used In	DerivativesStandingDataFile (9013)

## LegRatio

Field Name	Leg Ratio
Description	Ratio of lots for the leg. For contingent trades, the delta (to be calculated with the Amount Decimals).
Used For	Derivatives
Format	Quantity
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

## LegSymbolIndex

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.
Used For	Derivatives
Format	Numerical ID
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

## LiquidInstrumentIndicator

Field Name	Liquid Instrument Indicator
Description	Indicates whether the instrument is liquid or not, as defined per MiFID II. (0 = Illiquid; 1 = Liquid)
Used For	Derivatives
Format	Boolean
Tech Format	unsigned integer 8
Length	1

	Possible Values	0 = False
		1 = True
Ī	Used In	CashStandingDataFile (9007)

### LotSize

Field Name	Lot Size
Description	For cash instruments with Quantity Notation = "UNT": The Lot Size is the minimum tradable quantity that
	is set for each instrument by the Exchange. The quantity has to be a multiple of the Lot Size.
	For cash instruments with Quantity Notation = "FMT": The Lot Size has to be considered with the data "Par value", and the order quantity has to be a multiple of this Par value.
	For derivatives: The Lot Size represents the amount of underlying instrument per one unit of a derivative contract (to be calculated with the Quantity Decimals).
Used For	Cash and Derivatives
Format	Quantity
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)



## MainDepositary

Field Name	Main Depositary
Description	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).
	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' <b>–</b> Physical
	- '00010' – Interbolsa
	- '00000' – No depository organization
	- 'Nulls' – Not significant
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	5
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

DerivativesStandingDataFile (9013)

### MarketModel

Field Name	Market Model
Description	Market Model identifier.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Order Driven
	2 = Quote Driven
	3 = IPO
	4 = Primary Market
	5 = RFQ
Used In	CashStandingDataFile (9007)

## MarketOfReferenceMIC

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).
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	FullTradeInformationFile (9030)

# MaturityDate

Field Name	Maturity Date
Description	Maturity Date of the instrument (text formatted as YYYYMMDD).
	For contracts with one expiry per month the day component may be "00" (text formatted as YYYYMMDD).
	For AtomX instruments this field contains the exact expiry date.
	For repo (repurchase agreement) it represents the inclusive date until which a lending/borrowing contract can be traded.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	8
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# ${\bf Maximum Decimals In Quantity}$

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.
Used For	Cash
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	CashStandingDataFile (9007)

## **MDGSetOfChannelsID**

Field News	MDG C OCC LUD
Field Name	MDG Set Of Channels ID
Description	Identifier of an MDG Set Of Channels.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	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 UK
	11 = Best of Book
	12 = Trade Reporting And Publication
	13 = Euronext Indices
	14 = Euronext iNAVs
	15 = Third Party Indices
	16 = Commodity Derivatives
	17 = Currency Futures
	18 = Currency Options
	19 = AtomX (for Flex Contracts)
	20 = Equity Options France
	21 = Equity Options Netherlands
	22 = Equity Options Other
	23 = Index Options France
	24 = Index Options Netherlands
	25 = Index Options Other
	26 = Equity and Index Futures France
	27 = Equity and Index Futures Netherlands
	28 = Equity and Index Futures Other
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## **MDGSetOfChannelsName**

Field Name	MDG Set Of Channels Name
Description	Name of the MDG Set Of Channels.
Used For	Cash
Format	Text
Tech Format	character
Length	100
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## MIC

Field Name	MIC
Description	Identifies the market to which an instrument belongs by its MIC (Market Identification Code), segment MIC according to ISO 10383.
	Euronext owns the following MICs:
	- 'ALXA' – ALTERNEXT AMSTERDAM
	- 'ALXB' – EURONEXT GROWTH BRUSSELS
	- 'ALXL' - EURONEXT GROWTH LISBON
	- 'ALXP' – EURONEXT GROWTH PARIS
	- '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
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	4

Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

### **MICList**

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
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

## MiFIDClearingFlag

Field Name	MiFID Clearing Flag
Description	Code to identify whether the transaction will be cleared.
	- 'true': Transaction to be cleared.
	- 'false': Transaction not to be cleared.
Used For	Derivatives
Format	Text
Tech Format	character
Length	5
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# MifidCurrency

Field Name	MiFID Currency
Description	Currency in which the price is expressed (applicable if the price is expressed as monetary value) following ISO 4217 standard.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# ${\bf MiFIDE mission Allowance Type}$

Field Name	MiFID Emission Allowance Type
Description	This field is only applicable for emission allowances.
	Possible values:
	- 'EUAE' – European Union Allowances (EUA)
	- 'CERE' - Certified Emission Reductions (CER)
	- 'ERUE' - Emission Reduction Units (ERU)
	- 'EUAA' - European Union Aviation Allowances (EUAA)
	- 'OTHR' – Other (for derivatives only)
Used For	Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## MifidExecutionID

Field Name	MiFID Execution ID
Description	MiFID Transaction Identification Code is composed of the Symbol Index (on 10 characters), the EMM (on 3 characters) and the Execution ID (on 10 characters). It is a unique Execution ID by instrument per day on the different available EMM.
	Example: Trade done with Execution Id: 42 on the Symbol Index: 1384659 on EMM: 1 (COB) will have this MiFID Execution ID: 00013846590010000000042.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	52
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

### MifidInstrumentID

Field Name	MiFID Instrument ID
Description	Code used to identify the financial instrument. This code has to be processed with the MiFID Instrument ID Type.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	12
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# ${\bf MifidInstrumentIdType}$

Field Name	MiFID Instrument ID Type
Description	Code type used to identify the financial instrument.
	Possible values:
	- 'ISIN' = ISIN code, where ISIN is available.
	- 'OTHR' = other identifier.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

### **MiFIDNotionalAmount**

Field Name	MiFID Notional Amount
Description	Nominal amount or notional amount.
	For spread bets, the notional amount shall be the monetary value wagered per point movement in the underlying financial instrument.
	For credit default swaps, it shall be the notional amount for which the protection is acquired or disposed of.
	Possible values:
	- Maximum of 18 digits with a maximum of 5 decimals.
	Note: Decimal separator is '.' (full stop).
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## **MifidPrice**

Field Name	MiFID Price
Description	Traded price of the transaction excluding, where applicable, commission and accrued interest.
	Where price is reported in monetary terms, it shall be provided in the major currency unit.
	Where price is currently not available but pending, the value should be 'PNDG'.
	Where price is not applicable the field shall not be populated.
	Possible values:
	- For price expressed as monetary value: maximum of 18 digits with a maximum of 13 decimals.
	- For price expressed as percentage or yield: maximum of 11 digits with a maximum of 10 decimals.
	- For not available price (only for derivatives): 'PNDG'.
	Note 1: Decimal separator is '.' (full stop).
	Note 2: Negative numbers are prefixed with '-' (minus).
	Note 3: Where applicable, values shall be rounded and not truncated.
Used For	Cash and Derivatives

Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

### MifidPriceNotation

Field Name	MiFID Price Notation
Description	Indication as to whether the price is expressed in monetary value, in percentage or in yield.
	Possible values:
	'MONE' – Monetary value
	'PERC' – Percentage
	'YIEL' – Yield
	'BAPO' – Basis points.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## ${\bf MiFIDQty in Msrmt Unit Notation}$

Field Name	MiFID Qty in Measurement Unit Notation
Description	Indication of measurement units in which the quantity in measurement unit is expressed.
	Possible values:
	'TOCD' – tons of carbon dioxide equivalent
	Or
	{ALPHANUM-25} otherwise.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	25
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# MifidQuantity

Field Name	MiFID Quantity
Description	Number of units of the financial instrument. The nominal or monetary value of the financial instrument.
	Possible values:
	- For quantity expressed as number of units: maximum of 18 digits with a maximum of 17 decimals.
	- For quantity expressed as monetary or nominal value: maximum of 18 digits with a maximum of 5
	decimals.
	Note 1: Decimal separator is '.' (full stop).
Used For	Cash and Derivatives

Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# ${\bf Mifid Quantity Measurement Unit}$

Field Name	MiFID Quantity Measurement Unit
Description	The equivalent amount of commodity or emission allowance traded expressed in measurement unit
	Possible values:
	- For quantity expressed as number of units: maximum of 18 digits with a maximum of 17 decimals.
	Note: Decimal separator is '.' (full stop).
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

### **MinimumPrice**

Field Name	Minimum Price
Description	Minimum Price of the order. Price with decimals on x characters, with '.' as a separator
Used For	Cash
Format	Price
Tech Format	Decimals
Length	32
Possible Values	(See field description)
Used In	CashTickSizeReferentialFile (9020)

## ${\bf Minimum Quantity For Initiator}$

Field Name	Minimum Quantity For Initiator
Description	Wholesale RFC Minimum Quantity defines the minimum quantity required to submit an RFC as initiator.  Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.
Used For	Derivatives
Format	Quantity
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

## ${\bf Minimum Quantity For Reactor}$

Field Name	Minimum Quantity For Reactor
Description	Wholesale RFC Min Qty defines the minimum quantity required to submit a response to the RFC during the Improvement period. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.
Used For	Derivatives
Format	Quantity
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

## ${\bf MMTAgency Cross Trade Indicator}$

Field Name	MMT Agency Cross Trade Indicator
Description	Defines the agency cross trade indicator following MMT level 3.3.
	Possible values:
	- 'ACTX': Agency Cross Trade
	- '-': No Agency Cross Trade
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### ${\bf MMTAlgorithmicIndicator}$

Field Name	MMT Algorithmic Indicator
Description	Defines the algorithmic indicator following MMT level 3.9.
	Possible values:
	- 'ALGO': Algorithmic Trade
	- '-': No Algorithmic Trade
Used For	Cash
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### MMTBenchmarkIndicator

Field Name	MMT Benchmark Indicator
Description	Defines the benchmark indicator or the reference price indicator following MMT level 3.5.
	Possible values:
	- 'BENC': Benchmark Trade

	- 'RFPT': Reference Price Trade
	- '-': No Benchmark or Reference Price Trade
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### **MMTContributiontoPrice**

Field Name	MMT Contribution to Price
Description	Defines the contribution to price or the price discovery process following MMT level 3.8.
	Possible values:
	- 'P': Plain-Vanilla Trade
	- 'NPFT': Non-Price Forming Trade (formerly known as the Technical Trade)
	- 'TNCP': Trade not Contributing to the Price Discovery Process
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## ${\bf MMTDuplicative Indicator}$

Field Name	MMT Duplicative Indicator
Description	Defines the duplicative indicator following MMT level 5.
	Possible values:
	- 'DUPL': Duplicative Trade Report (reported to more than one APA)
	- '-': Unique Trade Report
Used For	Cash
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### ${\bf MMTM} arket {\bf Mechanism}$

Field Name	MMT Market Mechanism
Description	Defines the fundamental functional market mechanism that has facilitated the trade following MMT level
	1.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8

Length	1
Possible Values	1 = Central Limit Order Book
	2 = Quote Driven Market
	3 = Dark Order Book
	4 = Off Book (including Voice or Messaging Trading)
	5 = Periodic Auction (= Uncrossing)
	6 = Request for Quotes
Used In	FullTradeInformationFile (9030)

#### MMTModificationIndicator

Field Name	MMT Modification Indicator
Description	Defines the modification indicator following MMT level 3.4.
	Possible values:
	- 'CANC': Trade Cancellation
	- 'AMND': Trade Amendment
	- '-': New Trade
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# ${\bf MMTN} egotiation Indicator$

Field Name	MMT Negotiation Indicator
Description	Defines the negotiation indicator or pre-trade transparency waiver following MMT level 3.2.
	Possible values:
	- 'N': Negotiated Trade
	- 'NLIQ': Negotiated Trade in Liquid Financial Instruments
	- 'OILQ': Negotiated Trade in Illiquid Financial Instruments
	- 'PRIC': Negotiated Trade Subject to Conditions Other Than The Current Market Price
	- 'ILQD': Pre-Trade Transparency Waiver for illiquid instrument on an Side
	- 'SIZE': Pre-Trade Transparency Waiver for above standard market size on an SI
	- '-': No Negotiated Trade
Used For	Cash
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### ${\bf MMTOffBookAutomatedIndicator}$

Field Name	MMT Off Book Automated Indicator
Description	Defines the off book automated indicator following MMT level 3.7.

Used For	Cash and Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	M = Off Book Non-Automated
	Q = Off Book Automated
	- = (Hyphen) Unspecified or does not apply
Used In	FullTradeInformationFile (9030)

#### **MMTPostTradeDeferral**

Field Name	MMT Post Trade Deferral
Description	Defines the post trade deferral or enrichment type following MMT level 4.2.
	Possible values for the original trade:
	- 'LMTF': Limited Details Trade
	- 'DATF': Daily Aggregated Trade
	- 'VOLO': Volume Omission Trade
	- 'FWAF': Four Weeks Aggregation Trade
	- 'IDAF': Indefinite Aggregation Trade
	- 'VOLW': Volume Omission Trade, Eligible for Subsequent Enrichment in Aggregated Form
	Possible values for the subsequent enrichment trade:
	- 'FULF': Full Details of Earlier "Limited Details Trade (LMTF)"
	- 'FULA': Full Details of Earlier "Daily Aggregated Trade (DATF)"
	- 'FULV': Full Details of Earlier "Volume Omission Trade (VOLO)"
	- 'FULJ': Full Details of Earlier "Four Weeks Aggregation Trade (FWAF)"
	- 'COAF': Full Details in Aggregated Form of Earlier "Volume Omission Trade, Eligible for Subsequent Enrichment in Aggregated Form (VOLW)"
	Possible values if neither apply:
	- '-': Not Applicable / No Relevant Deferral or Enrichment Type
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### **MMTPublicationMode**

Field Name	MMT Publication Mode
Description	Defines the publication mode or post-trade deferral reason following MMT level 4.1.
	Possible values:
	- '-': Immediate Publication
	- '1': Non-Immediate Publication
	- 'LRGS': Non-Immediate Publication: Deferral for "Large in Scale"
	- 'ILQD': Non-Immediate Publication: Deferral for "Illiquid Instrument"
	- 'SIZE': Non-Immediate Publication: Deferral for "Size Specific"
Used For	Cash and Derivatives
Format	Text
Tech Format	character

Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## ${\bf MMTS} pecial Dividend Indicator$

Field Name	MMT Special Dividend Indicator
Description	Defines the special dividend indicator following MMT level 3.6.
	Possible values:
	- 'SDIV': Special Dividend Trade
	- '-': No Special Dividend Trade
Used For	Cash
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## ${\bf MMTT} rading {\bf Mode}$

Field Name	MMT Trading Mode
Description	Differentiates transactions by defining the trading mode under which the trade was executed following MMT level 2.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	1 = Undefined Auction (= Uncrossing)
	2 = Continuous Trading
	3 = At Market Close Trading
	4 = Out of Main Session Trading
	5 = Trade Reporting (On Exchange)
	6 = Trade Reporting (Off Exchange)
	7 = Trade Reporting (Systematic Internaliser)
	I = Scheduled Intraday Auction (= Uncrossing)
	K = Scheduled Closing Auction (= Uncrossing)
	O = Scheduled Opening Auction (= Uncrossing)
	U = Unscheduled Auction (= Uncrossing)
Used In	FullTradeInformationFile (9030)

#### MMTTransactionCategory

Field	d Name	MMT Transaction Category
Desc	cription	Defines the transaction category following MMT level 3.1.
		Possible values:
		- 'D': Dark Trade
		- 'RPRI': Trade that has Received Price Improvement
		- 'TPAC': Package Trade (excluding Exchange for Physicals)

	- 'XFPH': Exchange for Physicals Trade
	- '-': None apply (a standard trade for the Market Mechanism and Trading Mode)
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### **Mnemonic**

Field Name	Mnemonic
Description	Mnemonic code of the instrument. This field is not populated for every instrument.
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	5
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

#### **MotherStockISIN**

Field Name	Mother Stock ISIN
Description	ISIN Code of the index underlying of the TRF contract.
Used For	Derivatives
Format	Text
Tech Format	character
Length	12
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

# MulticastGroupIP

Field Name	Multicast Group IP
Description	Defines the IP number (IP v4).
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	15
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)



#### NominalCurrency

Field Name	Nominal Currency
Description	Code of the nominal currency (ISO 4217-3A).
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

#### NotionalCurrency

Field Name	Notional Currency
Description	Currency in which the notional is denominated following ISO 4217 standard.
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## NumberInstrumentCirculating

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.
Used For	Cash
Format	Quantity
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	CashStandingDataFile (9007)



#### **OpenInterest**

Field Na	me	Open Interest
Descript	ion	Open interest.
Used I	For	Cash
Forn	nat	Quantity

Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	OpenInterestFile (9014)

# OpenInterestDate

Field Name	Open Interest Date
Description	Open interest date (Format YYYYMMDD).
Used For	Derivatives
Format	Date
Tech Format	XML date
Length	8
Possible Values	(See field description)
Used In	OpenInterestFile (9014)

## **OptionType**

Field Name	Option Type
Description	Type of the option.
Used For	Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Call
	2 = Put
Used In	DerivativesStandingDataFile (9013)

# **OptiqSegment**

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.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	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
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## OrderEntryQualifier

Field Name	Order Entry Qualifier
Description	Field indicating the state of the Order Entry for the current market state.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Order Entry/Cancel/Modify Disabled
	1 = Order Entry/Cancel/Modify Enabled
	2 = Cancel and Modify Only (Derivatives Only)
	3 = Cancel Only
Used In	TimetableFile (9001)

#### OrderTypeRules

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)
	- bit in position 3 - Stop Limit: Stop limit orders are available for this instrument (0: No ; 1: Yes)
	- 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: Numerical value expressed in base 2, prefixed with '0b'.
Used For	Derivatives
Format	Bitmap
Tech Format	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
Used In	DerivativesStandingDataFile (9013)

#### ${\bf Original Report Time stamp}$

Field Name	Original Report Timestamp
Description	Timestamp of trade reporting to the Exchange (Text formatted following ISO 8601:

	hh:mm:ss.mmmμμμnnnZ
	where
	mmm for the milliseconds
	µµµ for the microseconds
	nnn for the nanoseconds
	Z is for UTC").
Used For	Cash and Derivatives
Format	Epoch Time in Nanoseconds
Tech Format	XML timeNano
Length	19
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## ${\bf Outright GCross Trade Threshold}$

Field Name	Outright G.Cross Threshold
Description	Wholesale Guaranteed Trade Threshold checked for Order Cross submission.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)

# ${\bf Outright LIST rade Threshold}$

Field Name	Outright LIS Trade Threshold
Description	Wholesale LIS Trade Threshold checked for Order Cross submission.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)



#### **PartitionID**

Field Name	Partition ID
Description	Identifies uniquely an Optiq partition across all the Exchange partitions.
Used For	Cash and Derivatives
Format	Numerical ID
Tech Format	unsigned integer 16
Length	2

Possible Values	From 0 to 2^16-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# **PartitionType**

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.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	character
Length	2
Possible Values	OE = Order Entry
	DC = Drop Copy
Used In	CashStandingDataFile (9007)

#### **ParValue**

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).
Used For	Cash
Format	Amount
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	CashStandingDataFile (9007)

#### **PatternID**

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. Cash Markets only.
Used For	Cash
Format	Numerical ID
Tech Format	unsigned integer 16
Length	2
Possible Values	From 0 to 2^16-2
Used In	CashStandingDataFile (9007)
	TimetableFile (9001)

#### Phaseld

Field Nar	Phase Id	
Descripti	Indicates the phase of the instrument. The length for this field is maximum possible value length.	

Used For	Cash and Derivatives
Format	Enumerated
Tech Format	XML text50
Length	50
Possible Values	1 = Inaccessible
	2 = Closed
	3 = Call
	4 = Uncrossing
	5 = Continuous
	7 = Continuous Uncrossing (Warrants and Certificates Only)
Used In	TimetableFile (9001)

## PhaseQualifier

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)
	- 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)
	- bit in position 4 – Suspended (Derivatives Only): indicates a suspended phase (0: No ; 1: Yes)
	- bit in position 5 – Wholesale Allowed (Derivatives Only): indicates a wholesale allowed phase (0: No ; 1:
	Yes)
	Format: Numerical value expressed in base 2, prefixed with '0b'.
Used For	Cash and Derivatives
Format	Bitmap
Tech Format	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)
	4 = Suspended (Derivatives Only)
	5 = Wholesale Allowed (Derivatives Only)
Used In	TimetableFile (9001)

#### **PhaseTime**

Field Name	Phase Time
Description	Time of Phase start (Text formatted following ISO 8601: hh:mm:ssZ where Z is for UTC").
Used For	Cash and Derivatives
Format	Integer Time in hhmmss
Tech Format	XML timeSec
Length	9
Possible Values	(See field description)
Used In	TimetableFile (9001)

#### **PortNumber**

Field Name	Port Number
Description	Defines the port number.
Used For	Cash and Derivatives
Format	Numerical
Tech Format	unsigned integer 16
Length	2
Possible Values	From 0 to 2^16-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# ${\bf Premium Pricing Threshold}$

Field Name	Premium Pricing Threshold
Description	Premium threshold defining the change of Tick Size to be applied from the default one provided in Instrument Tick Size field to the one provided in Premium Pricing Tick Size field.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)

## ${\bf Premium Pricing Tick Size}$

Field Name	Premium Pricing Tick Size
Description	Specific Tick Size value applicable for the instrument for premium under the threshold defined in Premium Pricing Threshold field.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

# PrevDayCapitalTraded

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.
Used For	Cash
Format	Amount
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2

Used In	PrevDayCapAndVolTradFile (9015)	
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#### **PreviousVolumeTraded**

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.
Used For	Cash
Format	Quantity
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	PrevDayCapAndVolTradFile (9015)

#### **PriceDecimals**

Field Name	Price / Index Level Decimals
Description	Indicates the number of decimals for each Price / Index Level related to this Symbol Index
Used For	Cash and Derivatives
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## PriceMultiplier

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.
Used For	Cash
Format	Numerical
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	FullTradeInformationFile (9030)

#### ${\bf Price Multiplier Decimals}$

-		
	Field Name	Price Multiplier Decimals
	Description	Number of decimals for the field Price Multiplier.
	Used For	Cash
	Format	Numerical
	Tech Format	unsigned integer 8

Length	1
Possible Values	From 0 to 2^8-2
Used In	FullTradeInformationFile (9030)

## PricingAlgorithm

Field Name	Pricing Algorithm
Description	Pricing Algorithm for the Contract.
	Possible values:
	'TRF' - Total Return Futures
Used For	Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

#### **ProductCode**

Field Name	Product Code
Description	Physical alphanumerical product code.
Used For	Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

#### **PublicationDateTime**

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.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	27

Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)



# QuantityDecimals

Field Name	Quantity Decimals
Description	Indicates the number of decimals for each Quantity related to this Symbol Index
Used For	Cash and Derivatives
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# QuantityNotation

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
Used For	Cash
Format	Text
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)



#### **RatioDecimals**

Field Name	Ratio / Multiplier Decimals
Description	Indicates the number of decimals for each Ratio / Multiplier related to this Symbol Index
Used For	Cash and Derivatives
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2

Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

#### Reference Future Contract Sec Grp

Field Name	Reference Future Contract SecGrp
Description	Exchange Code, Contract Type and Product code of the future contract.
Used For	Derivatives
Format	Text
Tech Format	character
Length	5
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

#### RepoIndicator

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.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Instrument neither eligible for the SRD, nor eligible for the Loan and Lending Market  1 = Instrument eligible for the SRD and for the Loan and Lending Market  2 = Instrument eligible for the SRD long only  3 = Instrument eligible for the Loan and Lending Market and for the SRD long only  4 = Easy-to-borrow Instrument eligible for the SRD and the for Loan and Lending Market  5 = Instrument eligible for the Loan and Lending Market  8 = Non significant
Used In	CashStandingDataFile (9007)

## RepoSettlementPrice

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.
Used For	Cash
Format	Price
Tech Format	signed integer 64
Length	8
Possible Values	From -2^63+1 to 2^63-1
Used In	RepoSettlementPriceFile (9016)



#### Session

Field Name	Session
Description	Current market session.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	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
Used In	TimetableFile (9001)

## SettlementDelay

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).
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	2
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

#### SettlementMethod

Ī	Field Name	Settlement Method
Ī	Description	Settlement method

	- "C" = Cash Settlement
	- "P" = Physical Settlement
	- "O" = Optional
	- Blank/null for exchanges "C", "G", "D", "H" containing Underlying instruments
Used For	Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	1
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

#### SourcelPRange

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.
Used For	Cash and Derivatives
Format	Text
Tech Format	character
Length	20
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

#### **StartTimeVwap**

Field Name	Start Time Vwap
Description	Start time for the Volume Weight Average price computation period (Text formatted following ISO 8601: hh:mm:ssZ where Z stands for UTC).
Used For	Cash
Format	Intraday Time in Seconds
Tech Format	XML timeSec
Length	9
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# StrategyCode

Field Name	Strategy Code
Description	Exchange-recognized strategy code
Used For	Derivatives
Format	Enumerated
Tech Format	character
Length	1
Possible Values	A = Jelly Roll

	B = Butterfly
	C = Call or Put Cabinet
	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
	a = Ladder versus Underlying
	b = Butterfly versus Underlying
	c = Call Spread versus Put versus Underlying
	d = Call or Put Spread versus Underlying
	e = Call or Put Calendar Spread versus Underlying
	f = Call/Put Diagonal Calendar Spread versus Underlying
	g = Guts versus Underlying
	h = Two by One Call or Put Ratio Spread versus Underlying
	i = Iron Butterfly versus Underlying
	j = Combo versus Underlying
	k = Strangle versus Underlying
	m = Exchange for Physical
	n = Straddle Calendar Spread versus Underlying
	p = Put Spread versus Call versus Underlying
	q = Diagonal Straddle Calendar Spread versus Underlying
	r = Synthetic
	s = Straddle versus Underlying
	t = Condor versus Underlying
	u = Buy Write
	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)

## ${\bf Strategy GCross Trade Threshold}$

Field Name	Strategy G.Cross Threshold
Description	Wholesale Strategy Guaranteed Cross Trade Threshold checked for Order Cross submission.

Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)

## ${\bf Strategy LIST rade Threshold}$

Field Name	Strategy LIS Trade Threshold
Description	Wholesale Strategy LIS Trade Threshold checked for Order Cross submission.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)

## **StrikeCurrency**

Field Name	Strike Currency
Description	Code of the strike currency (ISO 4217-3A).
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

## StrikeCurrencyIndicator

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'.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Change rate not applied to the strike price
	1 = Change rate applied to the strike price
Used In	CashStandingDataFile (9007)

#### **StrikePrice**

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.
Used For	Cash and Derivatives
Format	Price
Tech Format	signed integer 64
Length	8
Possible Values	From -2^63+1 to 2^63-1
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

#### **StrikePriceDecimals**

Field Name	Strike Price Decimals
Description	Indicates the number of decimals for Strike Price related to this Symbol Index
Used For	Cash
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	CashStandingDataFile (9007)

#### StrikePriceDecimalsRatio

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.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

#### StrikePriceFlexIncrement

Field Na	ame	Strike Price Flex Increment
Descript	tion	Strike Price increment for flex contracts (To be calculated with Price / Index Level Decimals).
		Used for flex options only.
Used	For	Derivatives

Format	Numerical
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

# **SymbolIndex**

Field Name	Symbol Index
Description	Exchange identification code of the instrument.
	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.
Used For	Cash and Derivatives
Format	Numerical ID
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)
	FullTradeInformationFile (9030)
	OpenInterestFile (9014)
	PrevDayCapAndVolTradFile (9015)
	RepoSettlementPriceFile (9016)



#### TaxCode

Field Name	Tax Code
Description	Tax deduction code to which the instrument belongs.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Not eligible to PEA
	3 = Eligible to PEA
	9 = Not Applicable
Used In	CashStandingDataFile (9007)

## ${\bf Throttle for Incoming Orders}$

Field Name	Throttle for Incoming Orders
Description	Defines the number of order messages that a session on the Order Entry Gateway can submit per second in a particular contract.
	If the value is set to zero (0) it means the applicable value of the throttling limit is the client connection throughput for all contracts on which member is not acting as a Liquidity Provider.

Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 16
Length	2
Possible Values	From 0 to 2^16-2
Used In	DerivativesStandingDataFile (9013)

#### **TickSize**

Field Name	Tick Size
Description	Tick Size applied between the current Minimum Price and the next Minimum Price. Tick size on x characters, with . as a separator
Used For	Cash
Format	Price
Tech Format	Decimals
Length	32
Possible Values	(See field description)
Used In	CashTickSizeReferentialFile (9020)

#### **TickSizeIndexID**

Field Name	Tick Size Index ID
Description	ID of the tick size table available in the Tick Table file.
Used For	Cash
Format	Numerical ID
Tech Format	unsigned integer 16
Length	2
Possible Values	From 0 to 2^16-2
Used In	CashStandingDataFile (9007)
	CashTickSizeReferentialFile (9020)

#### **TickValue**

Field Name	Tick Value
Description	Used to compute the Valuation Coefficient: allows the calculation of the amount in a currency which should be paid by the buyer to the seller for a given price, for a trading lot
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 64
Length	8
Possible Values	From 0 to 2^64-2
Used In	DerivativesStandingDataFile (9013)

#### **TickValueDecimals**

Field Name	Tick Value Decimals
Description	Indicates the number of decimals for Tick Value related to this Symbol Index
Used For	Derivatives
Format	Decimal Places
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

## **TradeQualifier**

Field Name	Trade Qualifier
Description	Trade Qualifier. Values specified, in the list of possible values, indicate the bit positions that should be used to set zero (0) or one (1) values. A single field contains multiple values provided in different positions.
	- bit in position 0 - Uncrossing Trade: indicates whether the trade occurred during an Uncrossing, or not. (0: No; 1: Yes)
	- bit in position 1 - First Trade Price: indicates whether the price of the trade is the first trade price of the day, or not. (0: No; 1: Yes) Please note that there can be multiple Trades with the "First Trade Price" flag set to Yes.
	- bit in position 2 - Passive Order: indicates whether the corresponding order was passive, or not. (0: No; 1: Yes)
	- bit in position 3 - Aggressive Order: indicates whether the corresponding order was aggressive, or not. (0: No; 1: Yes)
	- bit in position 4 - Trade Creation by Market Operations: indicates whether the trade results from a creation by Market Operations, or not. (0: No ; 1: Yes) - For future use
	- bit in position 5 - NAV Trade expressed in bps: indicates whether the trade results from a NAV trade expressed in basis point on the ETF MTF platform. (0: No ; 1: Yes)
	- bit in position 6 - NAV Trade expressed in price currency: indicates whether the trade is a NAV trade expressed in price currency. This trade is always an update from a previous NAV trade expressed in basis point on the ETF MTF platform. (0: No; 1: Yes)
	If all bits are set to 0, then it means that no Trade Qualifier applies.
	For the Market Data feed:
	- The values Passive Order and Aggressive Order always qualify the Buy order.Format: Numerical value expressed in base 2, prefixed with '0b'.
Used For	Cash and Derivatives
Format	Bitmap
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Uncrossing Trade
	1 = First Trade Price
	2 = Passive Order
	3 = Aggressive Order
	4 = Trade Creation by Market Operations
	5 = NAV Trade expressed in bps [C]
11	6 = NAV Trade expressed in price currency [C]
Used In	FullTradeInformationFile (9030)

#### **TradeReference**

Field Name	Trade Reference
Description	Reference of the trade reported to the Exchange.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	30
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

# TradeType

Field Name	Trade Type
Description	Type of trade.
•	
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Conventional Trade (Cash and Derivatives)
	2 = Large in Scale (LiS) Trade (Derivatives Only)
	3 = Basis Trade (Derivatives Only)
	4 = Large in Scale (LiS) Package Trade (Derivatives Only)
	5 = Guaranteed Cross Trade (Cash and Derivatives)
	6 = Against Actual Trade (Derivatives Only)
	7 = Asset Allocation Trade (Derivatives Only)
	9 = Exchange for Swap Trade (Derivatives Only)
	10 = Exchange for Physical Trade - Cash Leg (Cash Only)
	11 = Strategy Leg Conventional Trade (Derivatives Only)
	12 = Strategy Leg Large in Scale (LiS) Trade (Derivatives Only)
	13 = Strategy Leg Basis Trade (Derivatives Only)
	14 = Strategy Leg Guaranteed Cross Trade (Derivatives Only)
	15 = Strategy Leg Against Actual Trade (Derivatives Only)
	16 = Strategy Leg Asset Allocation Trade (Derivatives Only)
	18 = Strategy Leg Exchange For Swap Trade (Derivatives Only)
	19 = Strategy Leg Exchange For Physical Trade (Derivatives Only)
	20 = BoB Trade (Cash Only)
	22 = AtomX Trade (Derivatives Only)
	24 = Trade Cancellation (Cash and Derivatives)
	25 = Out of Market Trade (Cash Only)
	26 = Delta Neutral Trade - Underlying Cash Leg (Cash Only)
	27 = Market VWAP Operation Trade (Cash Only)
	28 = Euronext Fund Service Trade (Cash Only)
	29 = Secondary Listing Trade (Cash Only)
	30 = Request for Cross Trade (Derivatives Only)
	31 = Request for cross strategy Leg Trade (Derivatives Only)
	32 = Trade Publication (Cash Only)
	33 = Dark Trade (Cash Only) - For future use
	34 = Delta Neutral Trade - Underlying Future Leg (Derivatives Only)
	36 = Total Traded Volume (For future use)

	37 = ETF-MTF NAV Trade (price in basis points) (Cash Only) - For future use 38 = ETF-MTF NAV Dark Trade (price in basis points) (Cash Only) - For future use
Used In	FullTradeInformationFile (9030)

# **TradingCurrency**

Field Name	Trading Currency
Description	Code of the currency (ISO 4217-3A).
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	3
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# TradingCurrencyIndicator

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'.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Change rate not applied to the traded price
	1 = Change rate applied to the traded price
Used In	CashStandingDataFile (9007)

## **TradingDateTime**

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.
Used For	Cash and Derivatives
Format	Text

Tech Format	character
Length	27
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

## **TradingPeriod**

Field Name	Trading Period
Description	Provides the current trading period.
Used For	Cash and Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Opening (Cash and Derivatives)
	2 = Standard (Cash and Derivatives)
	3 = Closing (Cash and Derivatives)
Used In	TimetableFile (9001)

# TransactionType

Field Name	Transaction Type
Description	Transaction type or publication type.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	1 = Plain Vanilla Trade
	2 = Dark Trade
	3 = Benchmark Trade
	4 = Technical Trade
	5 = Give-up/Give-in Trade
	6 = Ex/Cum dividend Trade
	7 = Trade With Condition
	15 = Summary Report
Used In	FullTradeInformationFile (9030)

## TransparencyIndicator

Field Name	Transparency Indicator
Description	Used to define the transparency of the trade.
Used For	Cash
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Lit/Regular Trade
	1 = Dark Trade and Immediate Publication

	2 = Dark Trade and Deferred Publication
Used In	FullTradeInformationFile (9030)

# TypeOfCorporateEvent

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" Bourse de Luxembourg corporate event
Used For	Cash
Format	Alphanumerical ID
Tech Format	character
Length	2
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)

# TypeOfMarketAdmission

Field Name	Type Of Market Admission
Description	Indicates the type of market to which an instrument has been listed.
Used For	Cash
Format	Enumerated
Tech Format	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)



## UnderlyingExpiry

Field Name	Underlying Expiry
Description	Expiry Date of the underlying (in number of days since the 1st of January 1970).
Used For	Derivatives
Format	Date
Tech Format	unsigned integer 32
Length	4
Possible Values	From 0 to 2^32-2
Used In	DerivativesStandingDataFile (9013)

# ${\bf Underlying Instrument Trading Code}$

Field Name	Underlying Instrument Trading Code
Description	Is the underlying AMR code on derivatives and the Trading Code on cash.
	Cash: Trading code is a 12-character string, the only instrument identifier that is unique in the feed in addition to the symbol index.
	Derivatives: The AMR code is a 15-character string, allocated by the trading engine. It is unique per instrument.
Used For	Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	15
Possible Values	(See field description)
Used In	DerivativesStandingDataFile (9013)

# UnderlyingISINCode

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.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	12
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

## **UnderlyingMIC**

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.
Used For	Cash and Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	4
Possible Values	(See field description)
Used In	CashStandingDataFile (9007)
	DerivativesStandingDataFile (9013)

# UnderlyingSubtype

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)
Used For	Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1
Possible Values	0 = Basket
	1 = Dividend
	2 = ETF
	3 = Share
	4 = Dividend Index

	5 = Equity Index
	6 = TRF Index
	7 = Volatility Index
	8 = Future On Commodities
	9 = FXCR - FX Cross Rates
	10 = FXEM - FX Emerging Markets
	11 = FXMJ - FX Majors
	12 = AGRI - Agricultural
	13 = ENVR - Environmental
	14 = FRGT - Freight
	15 = FRTL - Fertilizer
	16 = INDP - Industrial products
	17 = INFL - Inflation
	18 = MCEX - Multi Commodity Exotic
	19 = METL - Metals
	20 = NRGY - Energy
	21 = OEST - Official economic statistics
	22 = OTHC - Other C10
	23 = OTHR - Other
	24 = PAPR - Paper
	25 = POLY - Polypropylene
Used In	DerivativesStandingDataFile (9013)

## UnderlyingType

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



## VegaProtectforMM

Field Name	Vega Protect for MM
Description	Vega Protection for Market Makers Level.
Used For	Derivatives
Format	Enumerated
Tech Format	unsigned integer 8
Length	1

Possible Values	0 = Protection for Market Makers enabled at a contract level 1 = Protection for Market Makers enabled at a contract and expiry level.
Used In	DerivativesStandingDataFile (9013)

#### Venue

Field Name	Venue
Description	Identification of the venue where the transaction was executed using the ISO 10383 segment MIC for transactions executed on a trading venue.  Otherwise the BIC is sent following ISO 9362.
Used For	Derivatives
Format	Alphanumerical ID
Tech Format	character
Length	11
Possible Values	(See field description)
Used In	FullTradeInformationFile (9030)

#### VolumeProtectforMM

Field Name	Volume Protect for MM	
Description	Volume Protection for Market Makers Level.	
Used For	Derivatives	
Format	Enumerated	
Tech Format	unsigned integer 8	
Length	1	
Possible Values	0 = Protection for Market Makers enabled at a contract level	
	1 = Protection for Market Makers enabled at a contract and expiry level.	
Used In	DerivativesStandingDataFile (9013)	



# WhRFCDaysBeforeExpiry

Field Name	WhRFC Days Before Expiry
Description	Wholesale RFC Days Before Expiry defines the number of days (0 to 99) from expiry from which the RFC will no longer be available. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

## WhRFCImprovement Period

Field Name	WhRFC Improvement Period
Description	Wholesale RFC Improvement Period is the number of seconds that defines the duration of the RFC Improvement Period. Available only if the Request For Cross (7) is set in Available Wholesale Trade Type.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

# WhRFCM in utes Before Closing

Field Name	WhRFC Minutes Before Closing
Description	Wholesale RFC Minutes Before Close allows the setup of the number of minutes (1 to 99) from market close from which the RFC will be deactivated.
Used For	Derivatives
Format	Numerical
Tech Format	unsigned integer 8
Length	1
Possible Values	From 0 to 2^8-2
Used In	DerivativesStandingDataFile (9013)

#### WhRFCPickUpPerc

Field Name	WhRFC Pick Up Perc	
Description	Defines the percentage of the RFC Initiator quantity that is available for RFC responses during the final execution at the RFC price. This pick up percentage is not relevant during the final execution with RFC responses improving the RFC Price. Available only for Wholesale Trade Type = 9.	
Used For	Derivatives	
Format	Numerical	
Tech Format	unsigned integer 8	
Length	1	
Possible Values	From 0 to 2^8-2	
Used In	DerivativesStandingDataFile (9013)	

#### **APPENDIX A: SBE DISCLAIMER**

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#### **APPENDIX B: DOCUMENT HISTORY**

Version	Date	Change Description
1.1.0	29 Sep 2016	<u>First Version</u>
1.2.0	4 Jan 2017	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 changes:  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"
		<ul><li>Multicast IP size changed</li><li>"Optiq Segment" possible values added</li></ul>
1.3.0	27 Jan 2017	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 Market Mechanism", "MMT Publication Mode", "MMT Trading Mode", "MMT Transaction Category", "MMT Negotiation Indicator", "MMT Agency Cross Trade Indicator", "MMT Modification Indicator", "MMT Benchmark Indicator", "MMT Special Dividend Indicator", "MMT Off Book Automated Indicator", "MMT Contribution to Price", "MMT Algorithmic Indicator", "MMT Post Trade Deferral", "MMT Duplicative Indicator", "Effective Date Indicator", "Notional Currency", "Trade Type", "MiFID Currency", "MiFID Notional Amount", "Venue", "MiFID Instrument Id" and "MiFID Instrument Id Type"
		<ul> <li>Following fields are set to null for step 1: "Miffid Price Notation", "MiFID Qty in Msrmt Unit Notation", "Miffid Quantity Measurement Unit", "Publication Date Time", "MMT Market Mechanism", "MMT Trading Mode", "MMT Transaction Category", "MMT Negotiation Indicator", "MMT Agency Cross Trade Indicator", "MMT Modification Indicator", "MMT Benchmark Indicator", "MMT Special Dividend Indicator", "MMT Off Book Automated Indicator", "MMT Contribution to Price", "MMT Algorithmic Indicator", "MMT Post Trade Deferral" and "MMT Duplicative Indicator"</li> <li>"Venue Of Publication" has been removed</li> <li>Trade Qualifier has 2 new possible values (only for phase 2): "NAV Trade expressed in bps" and "NAV Trade expressed in price currency"</li> </ul>

Version	Date	Change Description
		o "Trade Type" value "Valuation Trade" removed
		<ul> <li>"MMT Algorithmic indicator", "MMT Duplicative Indicator", "MMT Negotiation Indicator" and "MMT Special Dividend Indicator" are cash only not cash and derivatives</li> </ul>
		<ul> <li>Fields "MiFID Emission Allowance Type" and "Market Of Reference MIC" added</li> </ul>
		- TimetableFile (9001):
		<ul> <li>"Instrument State" field renamed into "Phase Id" and value halted removed</li> </ul>
		o "EMM", "Symbol Index" and "Pattern ID" fields are now optional
		<ul> <li>"Price Limits" and "Quote Spread Multiplier" fields removed</li> </ul>
		<ul> <li>"Trading Mode" Renamed in "Phase Qualifier" and values numbers changed (+1 for each value to avoid 0)</li> </ul>
		o "Trading Side" field removed
		- CashStandingData (9007):
		o "Partition ID", "Nomincal Currency" and "Issue Price" added
		<ul> <li>"Nominal Market Price" and "Repo Settlement Price" removed</li> </ul>
		<ul> <li>Following field are now optional: "Mnemonic", "Type of Market Admission" and "Pattern ID"</li> </ul>
		o "Instrument Group Code" field is now mandatory
		o "Market Model" Field added
		o "CFI" field is mandatory
		- DerivativesStandingDataFile (9013):
		<ul> <li>Addition of: "Lot Size" and "Underlying Expiry", "Partition ID", "Outright LIS Trade Threshold ", "Strategy LIS Trade Threshold ", "Outright G.Cross Threshold ", "Strategy G.Cross Threshold ", "Instrument Trading Code", "EMM", "Premium Pricing Threshold", "Tick Value" and "Premium Pricing Tick Size"</li> </ul>
		o "Tick Size Denominator" renamed in "Instrument Decimals Ratio"
		<ul> <li>"Instrument Numerator EDSP" renamed in "Instrument EDSP Tick Size"</li> </ul>
		o "Tick Size Numerator" renamed in "Instrument Tick Size"
		<ul> <li>"Strike Price Denominator" renamed in "Strike Price Decimals Ratio"</li> </ul>
		<ul> <li>"Instrument Numerator Settlement" renamed into "Instrument Settlement Tick Size"</li> </ul>
		<ul> <li>"Strategy Code" field added in a repeated section and is optional</li> <li>following field are now optional: "Option Type" and "Strike Price"</li> <li>"Instrument Unit Expression" field added</li> </ul>
		- StrategyStandingDataUnitary:
		<ul> <li>"Price / Index Level Decimal", "Ratio / Multiplier Decimal", "Quantity</li> <li>Decimal" and "Amount Decimal" have been removed</li> </ul>
		Field changes:
		<ul> <li>"EMM" field has a new possible value only for phase "2: ETF MTF – NAV Central Order Book" and Naming of possible values reviewed</li> </ul>

Version	Date	Change Description
		<ul> <li>"MiFID Execution ID": description improved with the details on how the value is generated</li> <li>"Currency Coefficient" description has been improved with the use of the decimal scale code</li> </ul>
		- "Strike Price Flex Increment" description improved with the Decimal field to use
		- "Trade Type":
		<ul> <li>possible values "Delta Neutral Trade – Future Leg", "Total Traded</li> <li>Volume" and "Hidden Quantity" added</li> </ul>
		<ul> <li>Value "26 – Delta Neutral – cash leg" is Cash Only and not Cash and Derivatives</li> </ul>
		- "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.
		<ul> <li>In field descriptions, the format have been updated with the functional type instead of the technical one.</li> </ul>
		- Section 1.3 File Name Convention: Version of the file removed from its name
		Message changes:
		<ul> <li>FullTradeInformationFile (9030):</li> <li>"MiFID Instrument ID Type" and "MiFID Price Notation" fields are now with a format type as "Text" instead of "Alphanum id"</li> </ul>
		<ul> <li>In "Trade Type" field the value "34 Delta Neutral Trade – Underlying Future Leg" is now "Derivatives Only" instead of "Cash and Derivatives"</li> </ul>
1.4.0	15 Mar 2017	o "MiFID Price Notation": new possible value added (BAPO –Basis Point)
		o "MiFID Emission Allowance Type": OTHR added in the possible values (for others)
		o "Transaction Type" is now optional (not used for derivatives)
		- DerivativesStandingDataFile (9013):
		<ul> <li>"Throttle for Incoming Orders" field description improved</li> <li>"Instrument Decimals Ratio" and "Strike Price Decimals Ratio" field</li> </ul>
		description improved  OutrightStandingDataUnitary: "CFI" field is optional
		<ul> <li>StrategyStandingDataUnitary: field "Contract Symbol Index" added</li> </ul>
		Field changes:

Version	Date	Change Description
		<ul> <li>In "EMM" field, the word "APA" from value "Euronext APA off-exchange trade reports" has been removed</li> </ul>
		<ul> <li>"Premium Pricing Tick Size" description corrected (it is not premium over the threshold but premium under the threshold)</li> </ul>
		- "Trade Type": "Total Traded Volume" value not used any more
		- "Phase Time" way to provide time changed (from number of sec to hhmmss)
		- "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
		<ul> <li>"PhaseQualifier", "Trade Qualifier", "Order Type Rules" and "Available Wholesale Trade Type" field descriptions have been updated</li> </ul>
		- "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  - DerivativesStandingDataFile (9013):
1.4.1	15 May 2017	o Following fields are now optional when it contains underlying referential: "Contract Event Date", "Contract Type", "Price / Index Level Decimals", "Quantity Decimals", "Amount Decimals", "Ratio / 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"
		<ul> <li>Field "Underlying Instrument Trading Code" added</li> </ul>
		Field changes:
		- Market Model is Cash only and not Cash and Derivatives
		Section change:
		<ul> <li>In MulticastDataRealTime and MulticastDataSnapshot sections, field Partition ID has been added</li> </ul>

Version	Date	Change Description
2.0.0	11 October 2017	1. EURONEXT Optiq Market Data Gateway Solution:  The SBETemplate file for Derivatives is located in the Environment folder  The CashTickSizeReferentialFile is located as a cross Optiq Segment> folder  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: Optiq OEG file names will begin with 'OptiqOEG'  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:  Only for Derivatives: The MDG SBE Template file is a cross Optiq Segment file, directly available in the Environment folder,  In Step 2: 2 SBE Template files are available: one for OEG and one for MDG. These files are stored in each <optiqsegment> folder,  About SBE Compatibility: Compatibility between MDG SBE template of step 1 and step 2 is not maintained.  TimetableFile (9001):  PhaseQualifier Optional instead of Mandatory</optiqsegment>

Version	Date	Change Description
		TradingPeriod Mandatory instead of Optional
		<ul> <li>Session Mandatory instead of Optional</li> </ul>
		- CashStandingDataFile (9007):
		<ul> <li>Description of the first structure updated: "As an example, Timestamps on the feed are provided on the feeding in number of ns since 1970</li> </ul>
		<ul> <li>January the 1st."</li> <li>Description of the third structure of the file added instead of 'for future use'</li> </ul>
		<ul> <li>LogicalAccessConnectivity structure added as the third structure of the file</li> </ul>
		<ul> <li>IssuePriceDecimals, StrikePriceDecimals, LiquidInstrumentIndicator and MarketOfReferenceMIC added</li> </ul>
		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
		<ul> <li>DaysToExpiry added at Outright level</li> </ul>
		<ul> <li>CFI added at Strategy level</li> </ul>
		LegPrice Optional instead of Mandatory
		- FullTradeInformationFile (9030) :
2.0.0	11 October	<ul> <li>Symbolindex Optional instead of Mandatory</li> </ul>
	2017	<ul> <li>MifidPrice Optional instead of Mandatory</li> </ul>
		<ul> <li>TradeQualifier Optional instead of Mandatory</li> </ul>
		4. Field Description changes:
		- <b>Tech Format</b> added for each field description
		- AvailableWholesaleTradeType description improved
		- DaysToExpiry added
		- <b>EMM</b> :
		<ul> <li>Value 50 'Societe Generale Systematic Internaliser (SI)' removed</li> </ul>
		<ul> <li>Value 254 'Not Applicable (For indices and iNAV)' becomes 99</li> </ul>
		- ExerStyle : Values 2 'Asian', 3 'Bermudan', 4 'Other' added
		- FirstSettlementDate description updated
		- FixPriceTick removed
		- GuaranteeIndicator :
		<ul> <li>Description updated</li> </ul>
		<ul> <li>Possible values description updated</li> </ul>
		- IPAddressPrimary and IPAddressDR added
		- IssuePrice description updated
		- IssuePriceDecimals created
		- IssuingCountry description updated
		- LegRatio description updated
		- <b>LiquidInstrumentIndicator</b> added
		- LotSize description updated
		- MainDepositary description updated

Version	Date	Change Description		
		- MarketOfReferenceMIC description updated with '(For Future Use)'		
		- MDGSetOfChannelsID :		
		<ul> <li>Format switched from 'Numerical ID' to 'Enumerated'</li> </ul>		
		<ul> <li>Possible values updated</li> </ul>		
		- 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		
		<ul> <li>OptiqSegment: Value 8 'Commodities Derivatives' renamed to 'Commodity Derivatives'</li> </ul>		
		- OrderEntryQualifier: Value 4 'Order Entry Only' removed		
		- OrderTypeRules description improved		
2.0.0	11 October	- PartitionType added		
	2017	- PhaseQualifier description improved		
		- <b>PriceMultiplier</b> description updated		
		- PricingAlgorithm added		
		- <b>PublicationDateTime</b> : Remove 'For phase 1 this field is set to null' from the		
		description		
		- ReferenceFutureContractSecGrp added		
		- SettlementDelay description updated		
		- SettlementMethod : Value 'O' 'Optional' added		
		- StrategyCode :		
		<ul> <li>Description updated</li> </ul>		
		<ul> <li>Value 'U' 'Inter Commodity Spread' removed</li> </ul>		
		- StrikePrice description updated		
		- StrikePriceDecimals added		
		- StrikePriceDecimalsRatio description updated		
		- ThrottleforIncomingOrders description updated		
		- TickValueDecimals added		
		- TradeQualifier :		
		Description updated		
		<ul> <li>Value 1 'Opening Trade' renamed to 'First Trade Price</li> </ul>		

Version	Date	Change Description
2.0.0	11 October 2017	- TradeType:  O Value 21 'SI Trade' removed  O 'For future use' added in value 33 'Dark Trade'  O Value 35 'Hidden Quantity' removed  O 'For future use' added in value 36 'Total Traded Volume'  O Value 37 'ETF-MTF NAV Trade (price in basis points) (Cash Only) - For
		future use' added  O Value 38 'ETF-MTF NAV Dark Trade (price in basis points) (Cash Only) - For future use' added  - UnderlyingSubtype added