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PREFACE

PURPOSE

The purpose of this document is to provide general technical information about Euronext Common File Transfer System Services. Euronext Common File Transfer System (CFTS) provides file distribution services to customers that have either an EMDDA (market data), SPA (Service Provider) or TPA (Trading Platform) agreement to get access to the core trading chain of Euronext.

TARGET AUDIENCE

This document should be read by Developers, Exchange Connectivity Managers, Trading Support Teams and anybody involved in the setup and the configuration of Optiq MDG solution in End User Acceptance (EUA) and Production environments.

SUPPORT

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- Operational Client Services Desk: clientsupport@euronext.com
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- Portugal +351 2 1060 8585
- UK +44 20 7660 8585

WHAT'S NEW?

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

REVISION NO. / VERSION NO.	CHANGE DESCRIPTION
5.17.0	Creation of the User Guide.

ASSOCIATED DOCUMENTS

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

- Euronext Cash and Derivatives Markets – Optiq Files – Interface Specification
- Euronext Cash and Derivatives Markets – Web Secured Communication Standards – Technical Specification

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1. OVERVIEW

The Common File Transfer System (CFTS) is designed to centralize access to configuration and data files for customers via Euronext private Colocation/CMC network and the Internet. This new critical service is based on a resilient and secured infrastructure.

CFTS SFTP services utilizes the SSH key pairs authenticate and encryption. Customers must generate their own SSH keys pairs and register their public key with Euronext to gain access to file locations.

SFTP public keys are used for authentication, instead of using passwords. The public key authentication uses a pair of keys, one private and one public.

Customers covered by this Euronext Common File Transfer System are companies who have signed one of the following agreements:

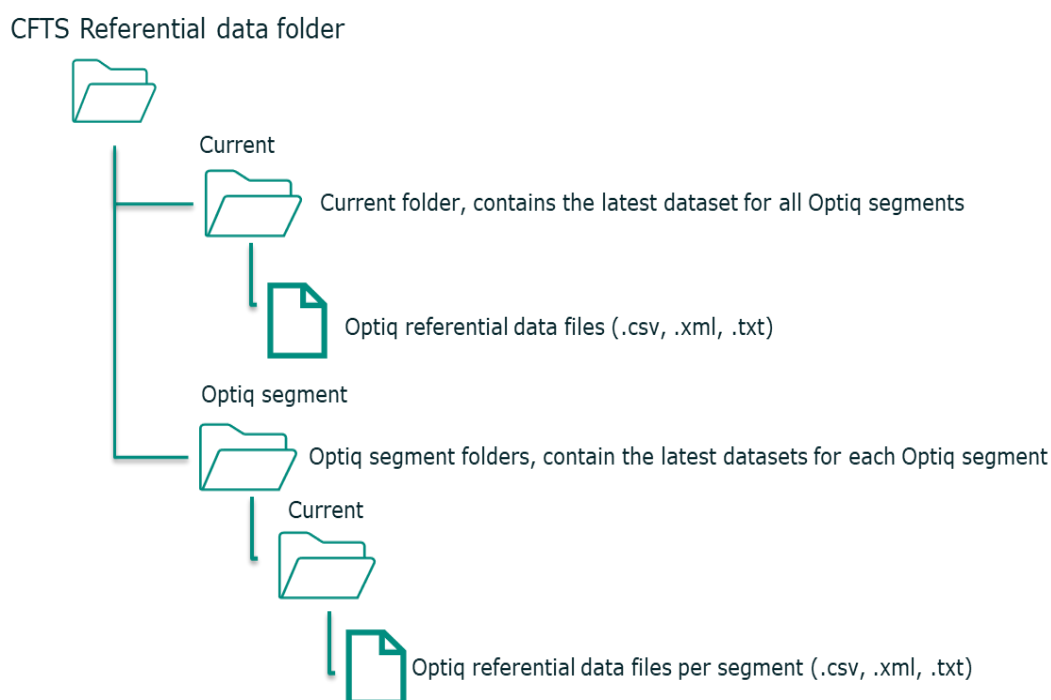
- Euronext Market Data Distribution Agreement (EMDDA)
- Service Provider Agreement (SPA)
- Trading Platform Agreement (TPA)

Euronext will deliver additional file distribution services and functionality through CFTS in future releases. Additional CFTS services, will offer both standard and customized private files per trading member, thereby becoming the hub for file transfer between Euronext and clients.

2. CFTS REFERENTIAL DATA SERVICE SUMMARY

Euronext CFTS Referential data service provides key Optiq data referential data files. Optiq referential data files will be available for download before the start of each trading day. And will provide an online archive of referential data files for the last five trading days.

The current folders contain the latest files Optiq referential data files for an environment and per Optiq segment.



2.1 REFERENTIAL DATA FILES PER ENVIRONMENT

The current environment folder contains the latest files Optiq referential data files for all Optiq segments.

Files available per Environment folder are as follows:

REFERENTIAL DATA FILES PER ENVIRONMENT	DESCRIPTION
CashTickSizeReferentialFile_All	The Tick size file contains different tables defining the variable tick sizes used for trading activity
MembershipMappingFile_All	Firm ID, Firm name, Instrument group code, LEI code for all members
RepoSettlementPriceFile_All	Repo Settlement Price File is used to communicate the previous day settlement price for each repo instruments
SBETemplates_All	Simple Binary Encoding (SBE) is the open-source binary protocol used as the solution for market data and order entry messaging in Optiq. SBE was designed within the FIX Protocol Limited organization, with a focus on low band width utilization and the goal of producing a binary encoding solution for low-latency financial trading. Templates define structure and content messages.
Euronext RLP Universe	Euronext RLP (Retail Liquidity Provider) Universe file
MBR_FAMINSTR	Instrument families categorization

2.2 REFERENTIAL DATA FILES PER OPTIQ SEGMENT

Files available per Optiq segment folder are as follows and will be provided in XML format:

REFERENTIAL DATA FILES PER OPTIQ SEGMENT	DESCRIPTION
CashStandingData File	The Cash Standing Data file provides Referential Data for cash markets
CashTickSizeReferential File	The Tick size file contains different tables defining the variable tick sizes used for trading activity
DerivativesStandingData File	The Derivatives Standing Data files provides Referential Data for derivatives markets, containing Contract Standing Data, Outright Standing Data and Strategies Standing Data
DerivativesTickSize File	The Tick size file contains different tables defining the variable tick sizes used for trading activity
OpenInterest File	Open Interest file provide open interest information provided by LCH on derivatives instruments
ReferenceSpreads File	Reference Spreads File provide data to calculate Dynamic Collar Reference Price when Reference Price Origin is set to 'Mid-BBO or Fair Value' and data to calculate Dynamic Collars
PrevDayCapAndVolTrade File	Previous Day Capital and Volume Traded file provides: Previous Volume Traded and Previous Day Capital Traded information
TimetableFile File	The Timetable file indicates the scheduled trading patterns, on a given day, associated to a Symbol Index linked by the Pattern ID
RepoSettlementPrice File	Repo Settlement Price File is used to communicate the previous day settlement price for each repo instruments
TRF Conversion Parameters File	The Total Return Futures (TRF) file provides contract Referential Data: Contract code, Maturity, Number of days to expiry, Daily Settlement Price. Pricing of Funding leg and Dividend leg: Daily accrued funding, daily accrued dividend, Accumulated funding, Accumulated dividend
SBETemplates (for MDG and OEG)	Simple Binary Encoding (SBE) is the open-source binary protocol used as the solution for market data and order entry messaging in Optiq. SBE was designed within the FIX Protocol Limited organization, with a focus on low band width utilization and the goal of producing a binary encoding solution for low-latency financial trading. Templates define structure and content messages.

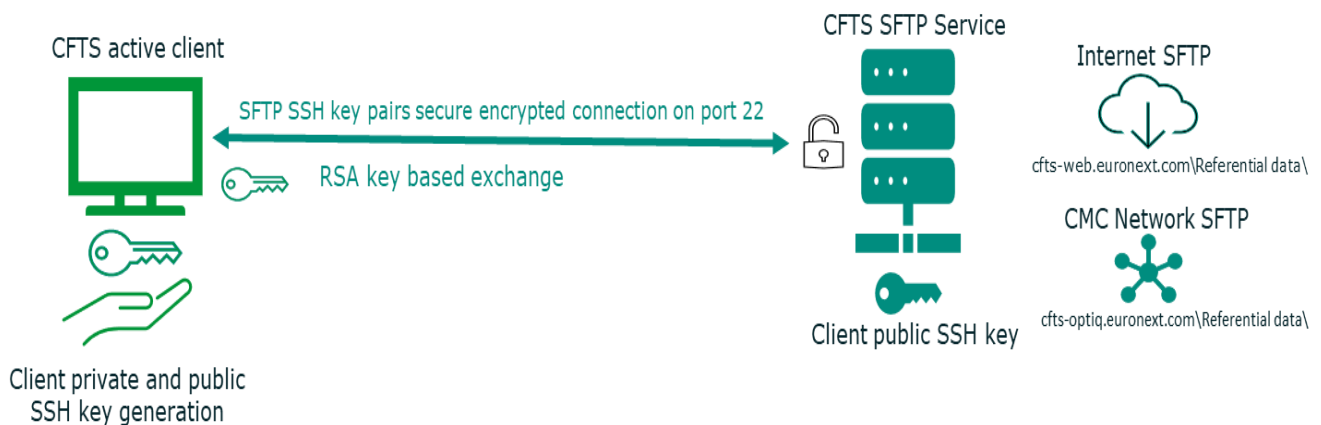
3. CFTS SFTP SERVICE ACCESS

To gain access to the CFTS SFTP, members must have generated and submitted their SFTP SSH public key to Euronext through the Market Access membership team, onboarding process (see CFTS trading member setup template and communication).

Secure Socket Shell (SSH), also called Secure Shell, creates a secure connection when you access a remote server. Secure File Transfer Protocol (SFTP) uses SSH and provides a secure way to transfer files between computers. SSH in SFTP Servers is an encrypted network protocol that uses public key cryptography to create a more secure method to authenticate a client’s identity and rights to access a server.

Authorized and authenticated trading members can gain CFTS SFTP access, either through internet and Colocation/CMC networks. SFTP connections will be authenticated using SSH protocol key pairs. Trading members must generate their own public and private keys, with the member’s public key being saved against their Euronext CFTS client user role. The member’s private key is kept secure and stored locally on the member’s own network. Access to the SFTP folder locations can only be secured by using a combination of the public and private keys (key pairs), and with a registered CFTS user email address.

CFTS referential data service can be accessed using the registered CFTS user email address and SFTP SSH key pairs.



3.1 PRE-REQUISITES

As a pre-requisite, customers are required to have a company agreement signed with Euronext (EDDA, SPA or TPA).

To access the CFTS SFTP data folders in both p-EUA and Production, the customers’ Member Connectivity Administrator (MCA) must have completed the CFTS user setup template and ensure that their SSH public key is registered with Euronext.

Only contacts registered CFTS onboarding process can access CFTS data services. For more information about MCAs and their registration, please contact: euronextmembership@euronext.com.

3.2 REFERENTIAL DATA SERVICE LOCATIONS

The table below provides the domain name locations used to connect to the CFTS SFTP Referential data service.

NETWORK	ENVIRONMENT	LOCATION NAME
CMC Access	EUA	cftsoptiq-eua.euronext.com\Referential Data\
	Production	cftsoptiq-prod.euronext.com\Referential Data\
	DR	cftsoptiq-dr.euronext.com\Referential Data\
Internet Access	EUA	cftswweb-eua.euronext.com\Referential Data\
	Production	cftswweb-prod.euronext.com\Referential Data\
	DR	cftswweb-dr.euronext.com\Referential Data\

Euronext CFTS SFTP service will authenticate connectivity based on the registered CFTS user email address with both client private and public SSH keys.

3.3 UPDATES TO AUTHENTICATION ATTRIBUTES

Changes to the SSH public key or CFTS registered user email address should be submitted to Euronext optiq migration team: **optiqmigration@euronext.com**

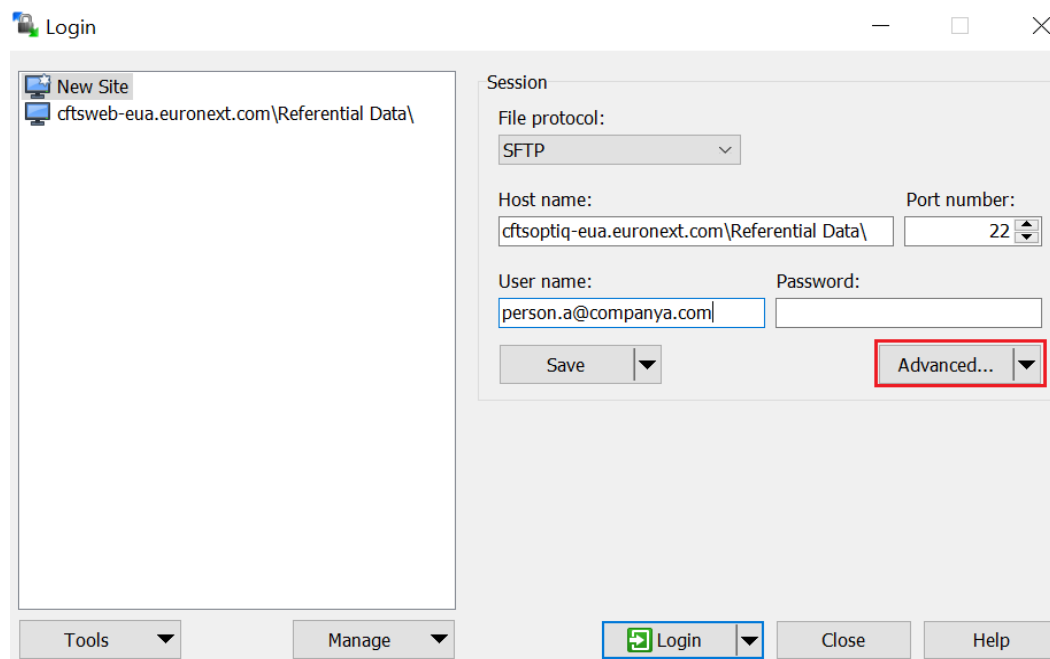
4. SFTP SSH KEY GENERATION

SFTP SSH public and private keys can be generated using a number of different proprietary applications. For the purposes of illustration, Microsoft WinSCP, was used to provide an example of generating SSH keys.

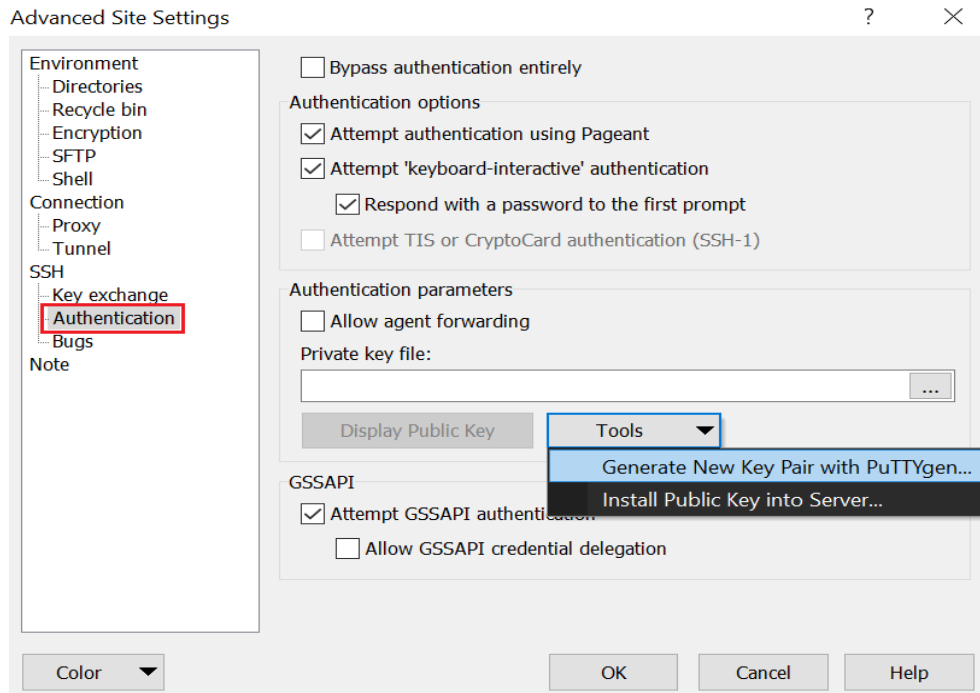
Steps to generate SSH keys

1. Open WinSCP
2. Select New Site
3. Populate the following field values and select Save

FIELD	VALUE
File protocol	SFTP
Host name	cftsoptiq-eua.euronext.com\Referential Data\
Port number	22
User name	CFTS user email account registered with Euronext

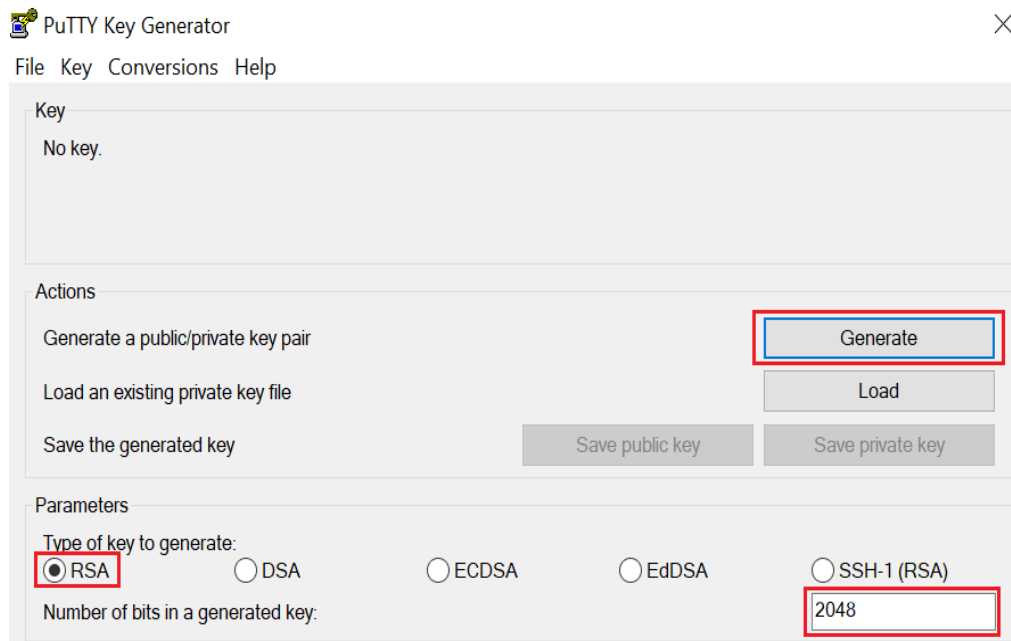


4. Select Advanced, Authentication, Tools, Generate New Key Pair with PuTTYgen.

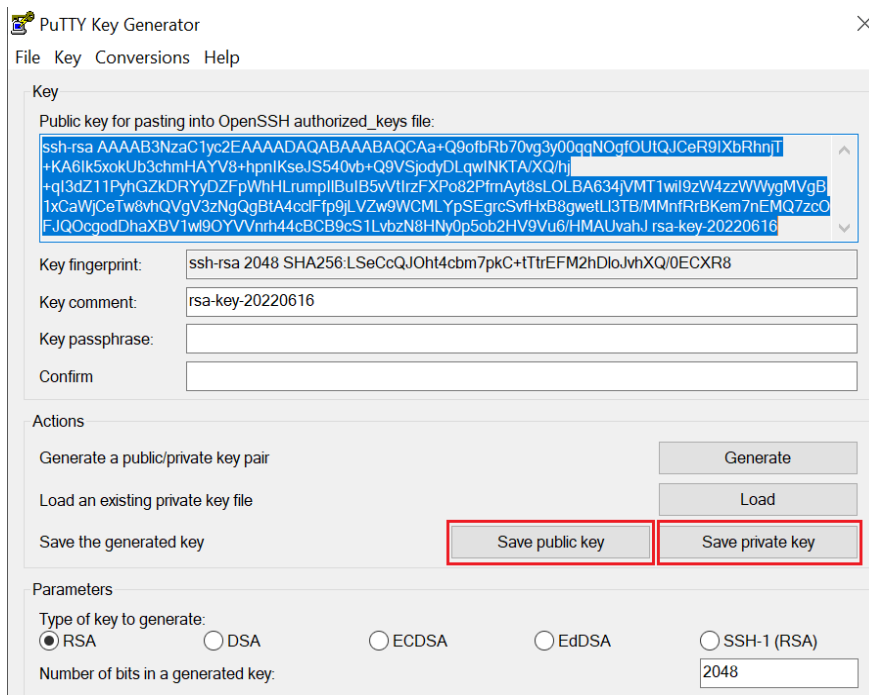


5. Select, Generate.

Ensure the type of key to generate, RSA, is selected and the default number of bits is 2048.

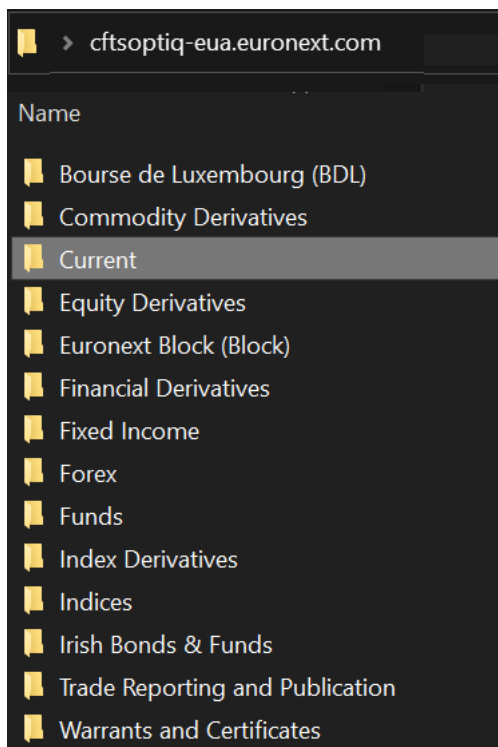


6. Select, Save public key.



7. Repeat the key generation for the private key. And select save private key.

8. Select Login to view cftsoptiq-eua.euronext.com folders and files.



5. REFERENTIAL DATA SERVICE FILE LIST

The table below lists the files that will be made available through CFTS SFTP Referential data service for download.

FILE	FILE FORMAT	FOLDER\FILE NAMING CONVENTIONS
Cash Tick Size Referential <u>All Optiq segments</u> (EUA and Production)	XML	\<Environment>\Current\OptiqMDG_<Environment>_CashTickSizeFile_All_<trading date YYYYMMDD>.xml eg. p-EUA\Current\OptiqMDG_p-EUA_CashTickSizeReferentialFile_All_20220203
Cash Tick Size Referential <u>per Optiq segment</u> (EUA and Production)	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_<Environment>_CashTickSizeFile_Commodities_<trading date YYYYMMDD>.xml e.g. p-EUA\Commodities\Current\OptiqMDG_p-EUA_CashTickSizeReferentialFile_Commodities_20220203.xml
RepoSettlementPriceFile <u>All Optiq segments</u>	XML	\<Environment>\Current\OptiqMDG_<Environment>_RepoSettlementPriceFile_All_<trading date YYYYMMDD>.xml e.g. p-EUA\Commodities\Current\OptiqMDG_p-EUA_RepoSettlementPriceFile_All_20220303.xml
SBETemplate <u>All Optiq segments</u>	XML	\<Environment>\Current\OptiqMDG_<Environment>_SBETemplate_All_<trading date YYYYMMDD>.xml e.g. p-EUA\Current\OptiqMDG_p-EUA_SBETemplate_All_20220303.xml
SBETemplate <u>per Optiq segment</u>	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_<Environment>_SBETemplate_<Optiq segment>_<trading date YYYYMMDD>.xml e.g. p-EUA\Equities\Current\OptiqMDG_p-EUA_SBETemplate_Equities_20220303.xml
SBETemplate Archive Version <u>per Optiq segment</u> (when a new SBE version is released the old version goes to an archive folder)	XML	\<Environment>\<Optiq segment>\Current\SBE-Archive\<SBE Version>\OptiqMDG_<Environment>_SBETemplate_<Optiq segment>_<trading date YYYYMMDD>.xml e.g. p-EUA\Equities\Current\SBE-Archive\312\OptiqMDG_p-EUA_SBETemplate_Equities_20220202.xml
TimeTableFile <u>per Optiq segment</u>	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_<Environment>_Timetable_<Optiq segment>_<trading date YYYYMMDD>.xml e.g. p-EUA\Equities\Current\OptiqMDG_p-EUA_Timetable_Equities_20220303.xml
PrevDayCapAndVolTrad File <u>per Optiq segment</u>	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_PrevDayCapAndVolTradFile_<Optiq segment>_<trading date YYYYMMDD>.xml e.g. p-EUA\Equities\Current\OptiqMDG_p-EUA_PrevDayCapVolTradFile_Equities_20220303.xml
DerivativesTickSizeFile <u>per Optiq Derivatives segment</u>	XML	\<Environment>\<Optiq Derivatives segment>\Current\OptiqMDG_DerivativesTickSizeFile_<Optiq segment Derivatives>_<trading date YYYYMMDD>.xml e.g. \p-EUA\EquityDerivatives\Current\OptiqMDG_p-EUA_DerivativesTickSizeFile_EquityDerivatives_20220303.xml
OpenInterestFile <u>per Optiq Derivatives segment</u>	XML	\<Environment>\<Optiq Derivatives segment>\Current\OptiqMDG_OpenInterestFile_<Optiq segment Derivatives>_<trading date YYYYMMDD>.xml e.g. \p-EUA\EquityDerivatives\Current\OptiqMDG_p-EUA_OpenInterestFile_EquityDerivatives_20220303.xml
ReferenceSpreadsFile <u>per Optiq Derivatives segment</u>	XML	\<Environment>\<Optiq Derivatives segment>\Current\OptiqMDG_DerivativesReferenceSpreadsFile_<Optiq segment Derivatives>_<trading date YYYYMMDD>.xml e.g. \p-EUA\EquityDerivatives\Current\OptiqMDG_p-EUA_DerivativesReferenceSpreadsFile_EquityDerivatives_20220303.xml
CashStandingDataFile <u>per Optiq segment</u>	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_<Environment>_CashStandingDataFile_<Optiq segment>_<trading date YYYYMMDD>.xml e.g. \p-EUA\FixedIncome\Current\OptiqMDG_p-EUA_CashStandingDataFile_FixedIncome_20220303.xml
FILE	FILE FORMAT	FOLDER\FILE NAMING CONVENTIONS

DerivativesStandingDataFile_per_Optiq Derivatives segment	XML	\<Environment>\<Optiq segment>\Current\OptiqMDG_<Environment>_DerivativesStandingDataFile_<Optiq segment Derivatives>_<trading date YYYYMMDD>.xml e.g \p-EUA\IndexDerivatives\Current\OptiqMDG_p-EUA_DerivativesStandingDataFile_IndexDerivatives_20220303.xml
Membership Mapping File All	XML	\<Environment>\Current\OptiqMDG_<Environment>_MemberMappingFile_All_<trading date YYYYMMDD>.xml e.g \p-EUA\Current\OptiqMDG_p-EUA_MemberMappingFile_All_20220303.xml
Euronext RLP Universe	csv	\<Environment>\Current\OptiqMDG_<environment>_Euronext-RLPUniverse_<current date YYYYMMDD>.csv e.g \p-EUA\Current\OptiqMDG_p-EUA_Euronext-RLPUniverse_20220407.csv
MBR_FAMINSTR	txt	\<Environment>\Current\OptiqMDG_<Environment>_MBR_FAMINSTR_<current date YYYYMMDD>.txt e.g \p-EUA\Current\Optiq_p-EUA_MBR_FAMINSTR_20220407.txt
TRF conversion Parameters File EOD XML	XML	\<Environment>\<Optiq segment>\Current\UTPDerivatives_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_EOD_<trading date YYYYMMDD>.xml e.g. p-EUA\IndexDerivatives\Current\UTPDerivatives_p-EUA_TotalReturnFuturesConversionParameters_IndexDerivatives_EOD_20220405.xml
TRF conversion Parameters File EOD CSV	CSV	\<Environment>\<Optiq segment>\Current\UTPDerivatives_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_EOD_<trading date YYYYMMDD>.csv e.g. p-EUA\IndexDerivatives\Current\UTPDerivatives_p-EUA_TotalReturnFuturesConversionParameters_IndexDerivatives_EOD_20220405.csv
TRF conversion Parameters File SOD XML	XML	\<Environment>\<Optiq segment>\Current\UTPDerivatives_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_SOD_<trading date YYYYMMDD>.xml e.g. p-EUA\IndexDerivatives\Current\UTPDerivatives_p-EUA_TotalReturnFuturesConversionParameters_IndexDerivatives_SOD_20220405.xml
TRF conversion Parameters File SOD CSV	CSV	\<Environment>\<Optiq segment>\Current\UTPDerivatives_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_SOD_<trading date YYYYMMDD>.csv e.g. p-EUA\IndexDerivatives\Current\UTPDerivatives_p-EUA_TotalReturnFuturesConversionParameters_IndexDerivatives_SOD_20220405.csv

5.1 FILE SPECIFICATIONS

For all details of individual file specifications please reference the latest version of the [Euronext Cash and Derivatives Markets – Optiq Files - Interface Specifications – External](#) on the [Euronext Connect Customer Portal](#).

Also see the latest file specifications, [Euronext Markets – Member Mapping File Specification](#).

APPENDIX A: CFTS APPENDIX

A.1 CFTS MEMBERS SETUP TEMPLATE

The below is sample of the CFTS members setup template that should be populated and submitted to Euronext as part of the members onboarding process.

Entity Attributes		User Attributes							
Trading member name	Trading Member code	SFTP SSH Public Key	Environment	Email address	First name	Last name	Date of last request	CFTS Service	Access Required
Company A	101	ssh-rsa AAAAB3NzaC1yc2EAAAABJQ AAQFAwTIdI+GVvOKEtn0yV YUJ7GavRW5Fv0BzGuzaoNp bDIt8TEGBJdmL6x4hNswRqPj Oxrp7+bDNIGV+jsy8G GQzJ90CuHkdVEAsceNpxjZ6s Chd94mc9re46ofrWjMpaIGHP WyBxnYMFx10hm47LNUDD1C 67x6E1akJ52B6XNICSQOue o62A+UIEBeizm8U0HcJ+4Ri4 9 tGmz6qMIdB8PcmohVvZP4A CI35RfByMNAPIFQDmxGFDIP yROF/vqVke7g1PB0COL8kuN	BOTH	Person_A@companya.com	Person A	A Person	16/06/2022	Referential Data Corporate Actions ETF EOD Regulatory Reconciliation	Yes Yes Yes Yes Yes

A.2 CFTS REFERENTIAL DATA SERVICE FILE DIRECTORY

The table below lists CFTS referential data folders and files that will be contained with the service.

FOLDER\SUBFOLDER	FILE	DESCRIPTION	FORMAT
Environment\Current\	OptiqMDG_<Environment>_CashTickSizeFile_All_<trading date YYYYMMDD>.xml	Cash tick size	XML
Environment\Current\	OptiqMDG_<Environment>_RepoSettlementPriceFile_ALL_<trading date YYYYMMDD>.xml	RepoSettlementPrice	XML
Environment\Current\	OptiqMDG_<Environment>_SBETemplate_All_<trading date YYYYMMDD>.xml	SBE Template	XML
Environment\Current\	OptiqMDG_<Environment>_MemberMappingFile_All_<trading date YYYYMMDD>.xml	Member Mapping file	XML
Environment\Current\	OptiqMDG_<Environment>_Euronext-RPLUniverse_<current date YYYYMMDD>.csv	Euronext-RPLUniverse	CSV
Environment\Current\	OptiqMDG_<Environment>_MBR_FAMINSTR_<current date YYYYMMDD>.txt	MBR_FAMINSTR	TXT
Environment\Optiq segment\Current	OptiqMDG_<Environment>_CashTickSizeFile_<Optiq segment>_<trading date YYYYMMDD>.xml	Cash tick size	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_SBETemplate_<Optiq segment>_<trading date YYYYMMDD>.xml	SBE Template	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_Timetable_<Optiq segment>_<trading date YYYYMMDD>.xml	Timetable	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_PrevDayCapAndVolTradFile_<Optiq segment>_<trading date>.xml	PrevDayCapAndVolTradFile	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_DerivativesTickSizeFile_<Optiq Derivatives segment>_<trading date>.xml	DerivativesTickSizeFile	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_OpenInterestFile_<Optiq Derivatives segment>_<trading date YYYYMMDD>.xml	Openinterest	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_DerivativesReferenceSpreadsFile_<Optiq Derivatives segment>_<trading date YYYYMMDD>.xml	DerivativesReferenceSpreads	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_CashStandingDataFile_<Optiq segment>_<trading date YYYYMMDD>.xml	CashStandingDataFile	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_DerivativesStandingDataFile_<Optiq segment Derivatives>_<trading date YYYYMMDD>.xml	DerivativesStandingDataFile	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_EOD_<trading date YYYYMMDD>.xml	TotalReturnFuturesConversionParameters EOD, xml	XML

FOLDER\SUBFOLDER	FILE	DESCRIPTION	FORMAT
Environment\Optiq segment\Current	OptiqMDG_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_EOD_<trading date YYYYMMDD>.csv	TotalReturnFuturesConversionParameters EOD, csv	CSV
Environment\Optiq segment\Current	OptiqMDG_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_SOD_<trading date YYYYMMDD>.xml	TotalReturnFuturesConversionParameters SOD, xml	XML
Environment\Optiq segment\Current	OptiqMDG_<Environment>_TotalReturnFuturesConversionParameters_<Optiq segment>_SOD_<trading date YYYYMMDD>.csv	TotalReturnFuturesConversionParameters SOD, csv	CSV
Environment\Optiq segment\Current\SBE-Archive\Version	OptiqMDG_<Environment>_SBETemplate_<Optiq segment>_<trading date YYYYMMDD>.xml	SBE Template version archive	XML

A.3 OPTIQ SEGMENT FOLDER LIST

The below table represents the list of available CFTS Optiq segment folders available at the time of publication.

OPTIQ SEGMENT
BDL (Bourse de Luxembourg)
Commodities (Commodity Derivatives)
Equities
Equity Derivatives
Block (Euronext Block)
Financial Derivatives
Fixed Income
Forex
Funds
Index Derivatives
Indices
Irish Bonds & Funds
Trade Reporting and Publication
Warrants and Certificates

APPENDIX B: DOCUMENT HISTORY TABLE

REVISION NO	DATE	AUTHOR	CHANGE DESCRIPTION
5.17.0	1 Aug 2022	IT Market Services – COL - WMA	Creation of the document.