

Order Entry Gateway Sessions Fee Guide

Euronext Markets

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Introduction

This guide is designed to provide members with a detailed overview of the fees for order entry sessions on Euronext Markets.

If you have any questions concerning the content of this guide, please contact the Operational Client Services team on clientsupport@euronext.com.

MAIN CHANGES FROM THE PREVIOUS EDITION

PAGE	ADDITIONS AND/OR CHANGES
15	Increased Logical Access fee for Commodity Derivatives market
6-10; 13	Adaptation price levels and parameters

1. Logical Access pricing and capacity in Production: General principles

- The OEG Logical Access pricing model applies to all OEG Logical Accesses on the SFTI infrastructure for all supported protocols (SBE and FIX 5.0), directly, or indirectly via an Extranet Service Provider (ESP) or an Application Service Provider (ASP).
- OEG Logical Accesses are invoiced by Euronext directly to members and independently from any network connectivity charges. As such, technology partners such as ASPs and ISVs are not invoiced for OEG Logical Accesses.
- CASH: The price for an OEG connection on the Euronext Cash Markets is a combination of a fixed cost and a variable incremental cost based on the order entry capacity (throughput, measured in messages per second).
- DERIVATIVES: The price for an OEG connection on the Euronext Derivatives Markets is a fixed fee per month based on the type of connection and the order entry capacity (throughput, measured in messages per second).
- Once a new OEG Logical Access has been fully activated with Production connectivity access, billing will start automatically, regardless of whether the OEG Logical Access has been effectively used or not. Full payment is due for every calendar month, and OEG Logical Access fees are not pro-rated in the event of a cancellation or modification.
- OEG Logical Accesses supporting several member codes from the same member Group¹ are charged only once. OEG Logical Accesses supporting several member codes from different member entities are charged per member code.
- Drop Copy sessions are charged at a flat rate regardless of the number of Drop Copy Logical Accesses ordered.
- Euronext reserves the right to negotiate bilateral arrangements and/or pilot programmes relating to fees and charges with members from time to time when it considers it appropriate to do so.
- Detailed Pricing and Throughput Allocation Models are described below.

¹ 'Member Group' as defined in Rule 3.4 of Euronext Rulebook 1: affiliates of the same firm with a 95% capital link are considered as part of the same Member Group

2. EURONEXT CASH MARKETS LOGICAL ACCESS PRICING AND CAPACITY IN PRODUCTION

Euronext Cash Markets OEG Logical Access Pricing and Capacity in the Optiq® Production Environment.

A. STANDARD LOGICAL ACCESSES: EURONEXT CASH MARKET EXCLUDING FIXED INCOME

MONTHLY CHARGES PER MEMBER CODE/ MEMBER GROUP IN PRODUCTION ENVIRONMENT

Flat fee:	€450 per OEG Logical Access
Maximum Capacity:	200 messages/second/partition per OEG Logical Access
Minimum Capacity & Capacity Increment:	5 messages/second/partition per OEG Logical Access
Order entry capacity charge:	€19.00/message/second

Retail flow provider:

Access fees for the Euronext Cash market would be capped at €10,500 per month if:

- Member registers as an RMO for the Euronext Cash Equity franchise
- Member reaches a monthly turnover of > €3bn across the Euronext Cash Equities Markets being flagged as Best of Book transactions
- At least 70% of the member's orders on all Cash Market logical accesses are RMO orders for the month being invoiced.

B. STANDARD LOGICAL ACCESSES: EURONEXT FIXED INCOME

MONTHLY CHARGES PER MEMBER CODE/ MEMBER GROUP IN PRODUCTION ENVIRONMENT

Flat fee:	€420 per OEG Logical Access
Maximum Capacity:	200 messages/second/partition per OEG Logical Access
Minimum Capacity & Capacity Increment:	5 messages/second/partition per OEG Logical Access
Order entry capacity charge:	€19.00/message/second

C. LOGICAL ACCESSES DEDICATED TO SPECIFIC USAGE: EURONEXT CASH MARKET

Specific Pricing and Capacity are available for OEG Logical Accesses entirely dedicated to:

- Liquidity Provision on Cash Equity Instruments
- Liquidity Provision on Exchange-Traded Funds (ETFs), Exchange-Traded Vehicles (ETVs) and Exchange-Traded Notes (ETNs)
- 'Omega 2' fee scheme

MONTHLY CHARGES PER MEMBER CODE IN PRODUCTION ENVIRONMENT

Flat fee:	€450 per OEG Logical Access
Maximum Capacity:	400 messages/second/partition per OEG Logical Access
Minimum Capacity & Capacity Increment:	5 messages/second/partition per OEG Logical Access
Order entry capacity charge:	€6.50/message/second

Notes on Liquidity Provision dedicated OEG Logical Accesses

Full details of Liquidity Provider fees and charges are based on individual Liquidity Provider Contracts².

D. EURONEXT ETP EXTENDED RLP

Members participating in the Extended Retail Liquidity Provider (RLP) Programme for Exchange-Traded Products or ETPs (ETFs, ETNs, ETVs) can benefit from two logical accesses free of charge, with a capacity up to 400msg/s each.

These dedicated logical accesses may not be used for any other purpose than for providing RLP quotes.

Should these dedicated logical accesses be used fully or partially for other flow, standard logical access rates shall apply.

E. LP ON EXCHANGE-TRADED FUND SEGMENT

For Exchange-Traded Fund (ETF) trading participants, the total cost of LP sessions on the ETF segment is capped at €50,000 per month.

F. FIXED INCOME LP

Liquidity Providers that are connected to the Fixed Income segment of Optiq can benefit from one logical access free of charge, with a capacity up to 400msg/s.

² For more information, please contact Euronext's Membership department at MCC@euronext.com.

This dedicated logical access may not be used for any other purpose than for providing LP quotes.

If Liquidity Providers have more than one logical access uniquely dedicated to liquidity provision, the logical access with the largest capacity is free of charge, while the additional logical accesses will be charged according to standard logical access rates.

G. LOGICAL ACCESSES DEDICATED TO STRUCTURED PRODUCTS LIQUIDITY PROVISION

Standard OEG Logical Access:

Specific Pricing and Capacity are available for OEG Logical Accesses entirely dedicated to Liquidity Provision on Structured Products (Warrants Optiq[®] segment):

MONTHLY CHARGES PER MEMBER CODE IN PRODUCTION ENVIRONMENT

Flat fee:	€225 per OEG Logical Access
Maximum Capacity:	200 messages/second/partition per OEG Logical Access
Minimum Capacity & Capacity Increment:	5 messages/second/partition per OEG Logical Access
Order entry capacity charge:	€6.50/message/second

Primary Liquidity Providers, Secondary Liquidity Providers and MiFID II Market Makers are charged according to the table above.

Should this dedicated Liquidity Provision logical access be used fully or partially for other flow, standard logical access rates shall apply.

LP Command OEG Logical Access (on the Request For Execution market model):

Additionally, each member registered as Liquidity Provider on Structured Products (trading on the Request For Execution market model) may request some additional capacity dedicated to sending messages other than (Bulk) Quotes, e.g. LP commands or Price Input messages:

MONTHLY CHARGES PER MEMBER CODE IN PRODUCTION ENVIRONMENT

LP Command Capacity:	Up to 20 messages/second/partition across all the LP Command OEG Logical Accesses of the member
Number of LP Command OEG Logical Accesses per member:	Up to 2 LP Command OEG Logical Accesses per member
Minimum Capacity & Capacity Increment:	5 messages/second/partition per LP Command OEG Logical Access
Flat fee:	€0 per LP Command OEG Logical Access

Order entry capacity charge: €0/message/second

In case an LP Command OEG Logical Access would also be used for sending (Bulk) Quote messages, it would be charged as a standard OEG Logical Access under section F.

H. FREE PACKAGE

Each "Member Group"³ on the Euronext Cash Markets, connected to the Equity, ETF and/or Warrants & Certificate segments may have a free package consisting of:

- A maximum of one OEG Logical Access per Optiq Segment.
- A minimum capacity and minimum increment of 2 msg/s.
- A maximum capacity of 30 messages per second across all market segments and Logical Accesses for the "Member Group" opting for the free package

Additional Notes:

- The Free Package cannot be combined with paid access.
- The Member Group must either opt for the free package or choose a paid option.

The Free Package cannot be used for conducting Liquidity Provision Activity

I. OSLO LOCAL MEMBER SCHEME

MONTHLY CHARGES PER MEMBER CODE/ MEMBER GROUP IN PRODUCTION ENVIRONMENT

Flat fee:	€450 per OEG Logical Access
Maximum Capacity:	200 messages/second/partition per OEG Logical Access
Minimum Capacity & Capacity Increment:	5 messages/second/partition per OEG Logical
Member group cap:	€4,500

Drop copy use on the Euronext Markets is charged at a flat fee of €440 per "Member Group", regardless of the number of drop copy Logical Accesses created.

J. OSLO FIXED INCOME SCHEME

As from 1 January 2022, the Oslo Fixed Income OEG scheme was separated from the other Cash markets OEG scheme and be specific to Fixed Income markets. Oslo Børs Fixed Income members will be charged with the standard Logical Access schedule for Fixed Income trading (see B - Standard Logical Access).

³ 'Member Group' as defined in Rule 3.4 of Euronext Rulebook 1: affiliates of the same firm with a 95% capital link are considered as part of the same Member Group.

K. DROP COPIES

Drop copy use on the Euronext Markets is charged at a flat fee of €1,100 per “Member Group”, regardless of the number of drop copy Logical Accesses created.

L. TCS (TRADE CONFIRMATION SYSTEM) OEG LOGICAL ACCESSSES

Euronext Cash Market OEG Logical Accesses dedicated to the Trade Confirmation System (TCS) with a maximum capacity of 10 messages/second are free of charge.

M. EURONEXT CASH MARKETS: ORDER ENTRY CAPACITY PER OEG LOGICAL ACCESS / PARTITION

The order entry capacity per OEG Logical Access is always defined at the partition level. If an Optiq segment has several partitions, the total throughput on this segment equals capacity multiplied by the number of partitions.

For invoicing purposes, capacity at the level of the partition is charged.

The order entry capacity per OEG Logical Access/Partition starts at 5 messages per second.

It is capped at:

- 200 messages per second per partition for Standard OEG Logical Accesses
- 400 messages per second per partition for Liquidity Provision Dedicated OEG Logical Accesses

Members may allocate capacity across OEG Logical Accesses according to the principles described above and with a minimum increment of 5 messages/second/partition.

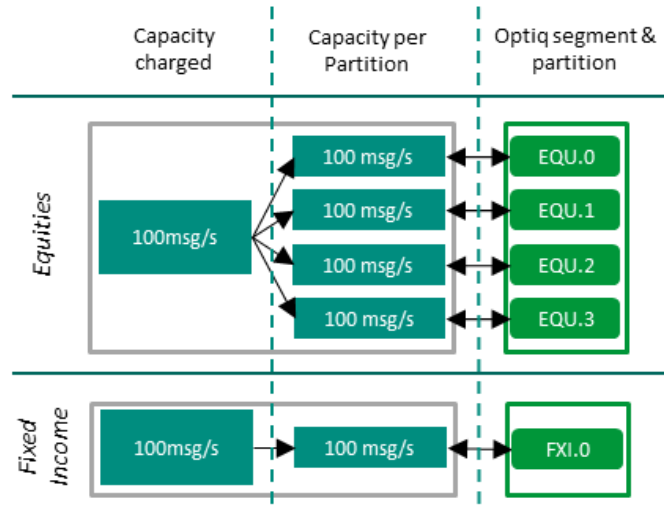
EXAMPLE 1: CAPACITY ON SINGLE AND MULTI-PARTITION OPTIQ® SEGMENT

A Member Group trading on the Euronext Cash Markets holds 1 OEG Standard Logical Access with 100msg/s on an Optiq segment with 1 partition, and 1 OEG Standard Logical Access with 100msg/s on an Optiq segment with 4 partitions.

On the Optiq segment with 1 partition, the capacity of the connection is 100 msg/s

On the Optiq segment with 4 partitions, the capacity of the connection to each partition is 100 msg/s with a total capacity of $4 \times 100 \text{ msg/s} = 400 \text{ msg/s}$

The monthly charge for this Member Group is $2 \times (\text{€}450 + \text{€}19.00 \times 100 \text{ msg/s}) = \text{€}4,700$



EXAMPLE 2: ADDING A PARTITION TO AN OPTIQ® SEGMENT

A Member Group trading on the Euronext Cash Markets holds 1 OEG Standard Logical Accesses with 100msg/s on an Optiq segment with 2 partitions. 1 new partition is added to the Optiq segment.

- Before the new partition is added, the capacity of the connection to each partition is 100 msg/s with a total capacity of $2 \times 100 \text{ msg/s} = 200 \text{ msg/s}$
- After the new partition is added, the capacity of the connection to each partition remains 100 msg/s with an increased total capacity of $3 \times 100 \text{ msg/s} = 300 \text{ msg/s}$

The monthly charge for this Member Group does not change with the addition or removal of a partition to an Optiq segment.

3. EURONEXT FINANCIAL DERIVATIVES MARKETS: OEG LOGICAL ACCESS PRICING AND CAPACITY IN PRODUCTION

Euronext Financial Derivatives Markets OEG Logical Access Pricing and Capacity in the Optiq® Production Environment.

The Financial Derivatives Markets are considered to refer to the following segments:

- Equity Derivatives Segment (EQD)
- Index Derivatives Segment (IDD)

Pricing and capacity for the Commodity Derivative Markets segment can be found in section 4 of this guide.

A. STANDARD LOGICAL ACCESSES FOR FINANCIAL DERIVATIVES MARKET

SUBTYPE	MAX CAPACITY PER SESSION/PER PARTITION	FLAT FEE PER MONTH	QUOTES INCLUDED	PROTOCOL SUPPORTED
LIGHT	30 msg/s	€160	No	SBE or FIX
FULL	100 msg/s	€320		

B. MARKET MAKER LOGICAL ACCESS FOR FINANCIAL DERIVATIVES MARKETS ON OPTIQ®

SUBTYPE	MAX CAPACITY PER SESSION/PER PARTITION	FLAT FEE PER MONTH	QUOTES INCLUDED	PROTOCOL SUPPORTED
LIGHT	50 msg/s	€270	Yes	SBE
FULL	400 msg/s	€800		

C. FREE LOGICAL ACCESS FOR FINANCIAL DERIVATIVES MARKETS ON OPTIQ®

All members are entitled to 1 free Standard access (Light) on the first segment to which they are connected⁴.

⁴ For members with access to multiple financial derivative segments (EQD/IDD), only the first segment connected will be free of charge.

Market Makers are entitled to 1 additional free Market Maker access (Light) on the first segment they are connected to¹.

LOGICAL ACCESS	SUBTYPE	MAX CAPACITY PER SESSION/PER PARTITION	FLAT FEE PER MONTH	QUOTES INCLUDED	PROTOCOL SUPPORTED
Standard	LIGHT	30 msg/s	€0	No	SBE or FIX
Market Maker	LIGHT	50 msg/s	€0	Yes	SBE

D. LOGICAL ACCESSES FOR RISKGUARD

Logical Accesses used solely for RiskGuard are free of charge.

E. DROP COPIES

Drop copy use is charged a flat fee of €1,100 per "Member Group", regardless of the number of drop copy Logical Accesses created.

F. EURONEXT FINANCIAL DERIVATIVES MARKETS: OEG LOGICAL ACCESS CAPACITIES

The Logical Access capacity is defined at the partition level.

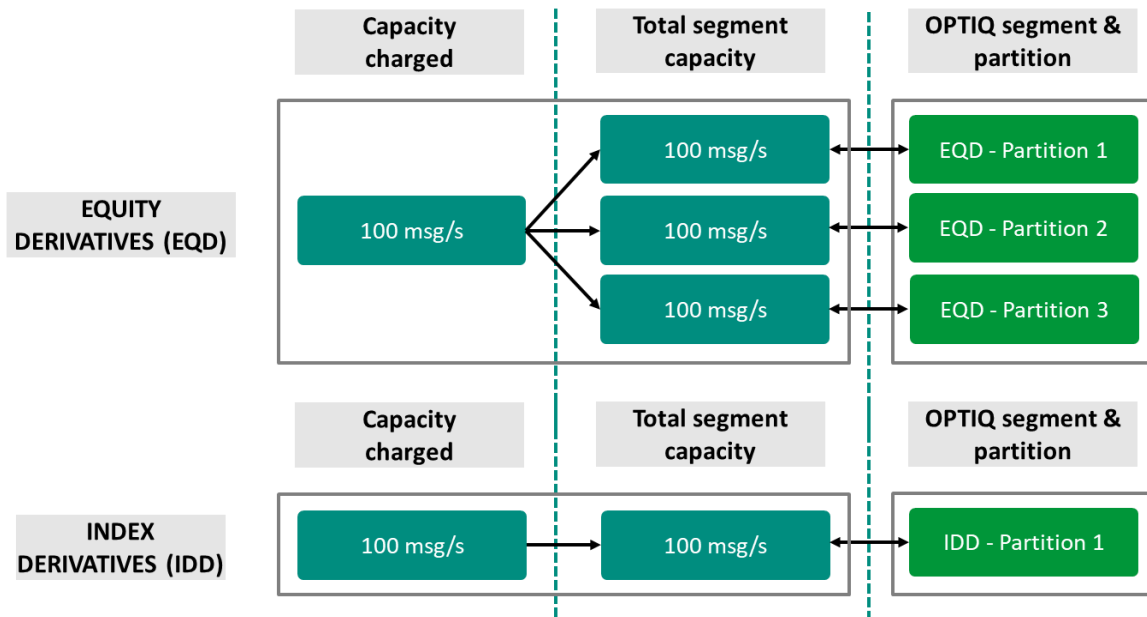
The Equity Derivatives Segment (EQD) has three partitions, and is the only derivatives segment to have more than one partition. The flexibility of the Optiq platform allows Euronext to add or remove partitions to match capacity requirements. Monthly charges will not change with the addition or removal of partitions.

For invoicing purposes, capacity at the level of the partition is charged.

EXAMPLE

A Member holds 1 Full Standard Logical Access for the Equity Derivatives Segment (EQD) with 100 msg/s, and 1 Full Standard Logical Access for the Index Derivatives Segment (IDD) with 100 msg/s:

- On the EQD segment with 3 partitions, the capacity of the connection to each partition is 100 msg/s, so the total capacity is 3 x 100 msg/s = 300 msg/s.
- On the IDD segment, the capacity of the connection is 100 msg/s as there is only one partition.



The monthly charge for this Member would be:

1 Standard Logical Access for Equity Derivatives Segment (EQD)	€320
1 Standard Logical Access for Index Derivatives Segment (IDD)	€320
Total fees	€640

G. STANDARD ACCESS VERSUS MARKET MAKER ACCESS

As Market Maker access in Optiq is optimised for market quoting activity, members should be aware that there could be extra latency observed if Market Maker accesses are used to support low-latency trading through individual orders.

Thus for the purposes of latency optimisation, members are advised to order Standard accesses to support their trading activity, and Market Maker accesses to support their quoting activity.

4. LOGICAL ACCESSES FOR COMMODITY DERIVATIVES MARKET

Euronext Commodity Derivatives Markets OEG Logical Access Pricing in the Optiq® Production Environment.

All members are entitled to 1 free Standard Light Logical Access to the Commodity Derivatives market segment per "Member Group", providing up to 30 msg/s.

If further Standard Light or Full Logical Accesses are required to access the Commodity Derivatives market segment then there will be a monthly flat fee of €850 per "Member Group" regardless of the number of Logical Accesses created.

LOGICAL ACCESS	SUBTYPE	MAX CAPACITY PER SESSION/PER PARTITION	FLAT FEE PER MONTH	QUOTES INCLUDED	PROTOCOL SUPPORTED
Standard	LIGHT	30 msg/s	€850	No	SBE or FIX
Standard	FULL	100 msg/s	€850	No	SBE or FIX
Market Maker	LIGHT	50 msg/s	€*	Yes	SBE
Market Maker	FULL	400 msg/s	€*	Yes	SBE

**Additionally if Market Maker Logical Access is required for a member providing market maker or liquidity provision support to Commodity Derivatives then Market Maker Logical Access units will also fall under the monthly flat fee of €850.*

5. Temporary scheme for “Eligible Firms”

From 27 March 2023 to 30 June 2024, members trading primarily on Italian operated Euronext markets (hereinafter “Eligible Firms”), will have their OEG logical access fees capped at fees charged in February 2023 for the asset classes migrated onto Optiq® as described below.

Definition of Eligible Firm

“Eligible Firms” are defined as:

- being active in at least one of the following asset classes on Borsa Italiana: Equities, ETPs, Fixed Income, Structured Products, and Equity and Index derivatives;
- having a ratio of activity (value/lots) between Borsa Italiana vs overall Euronext Group that exceeds 75% for each asset class in which they are active.

In the case that a participant is active in five asset classes, the ratio of 75% only needs to be met on a minimum of four asset classes.

For clients benefiting from aggregation, as per paragraph 1.5 of the *Trading Fee Guide for Cash Market Members*, the ratio is calculated aggregating volumes at parent level.

Cap calculation

Eligible Firms OEG Logical Access fees will be capped at the amount charged to each Eligible Firm for the month of February 2023 in relation to the OEG/Front Office logical accesses covering all asset classes and all Euronext markets (including Borsa Italiana). The cap will progressively cover the asset classes at their migration onto Optiq®.

In particular:

- after the migration of Equities and ETFplus markets, the cap will be applied to the total OEG Logical Access fees charged for Equity and ETFs, ETVs and ETNs according to this pricelist and will include all fees charged for these asset classes on all Euronext Group markets in February 2023;
- after the migration of SeDex, Fixed Income markets and EuroTLX markets, the cap will be extended to OEG Logical Access front Office fees charged for Structured Products (Warrants Optiq segment) and Fixed Income according to this pricelist; the cap will include fees charged in February 2023 for the migrated asset classes (Equity, ETFs, ETVs, ETNs, Structured Products and Fixed Income) on all Euronext Group markets;
- after the migrations of IDEM, the cap will be further extended to the total OEG Logical Access fees charged for Derivatives according to this pricelist; the cap will include all fees charged in February 2023 for the migrated asset classes (Equity, ETFs, ETVs, ETNs, Structured Products, Fixed Income and Derivatives) on all Euronext Group markets.

6. OEG LOGICAL ACCESS PRICING AND CAPACITIES – EUA ENVIRONMENT

All OEG Logical Accesses are free of charge in the External User Acceptance (EUA) test environments.

7. PROCESS FOR ORDERING / MODIFYING / CANCELLING OEG LOGICAL ACCESSES

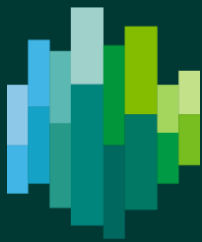
To order new OEG Logical Accesses in the Production or EUA environments, or to cancel or modify a Logical Access, an online form is available on the [Connect website](#).

Note: this form can only be completed by a nominated **Member Connectivity Administrator (MCA)**.

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