

Connectivity options

Different solutions to meet every client's needs



Euronext provides today a wide range of **Application Services** through its network.



Each of those services can be accessed:

Through a **direct connection** to the Euronext network

Through an **indirect connection** via an external service provider authorised by Euronext

In the near future, **Euronext Post-Trading Services will also be onboarded onto the Euronext network.**

This means that clients already directly or indirectly connected to Euronext for trading, market data or clearing services, will be able to use the same infrastructure for post-trading services



APPLICATION SERVICES

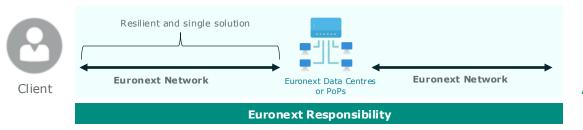
- Order Entry services to Optiq Matching Engine or to MTS
- Euronext or MTS Market Data
- Deal capture & risk management (e.g. drop copy, RiskGuard)
- Euronext Clearing services
- Euronext Post-TradingServices

Direct connectivity options



Euronext Managed Connectivity (EMC)

End-to-end Euronext Managed Connectivity from client's premises to Euronext Data centres









Client Managed Connectivity (CMC)

Client is responsible for the connection from its premises to Euronext Data Centres or Points of Presence (PoPs)







Euronext Application Services



Connectivity to Test Environment (VPN)

Connectivity to the IBM MQ UAT (TEST) environment will be available also using a site-to-site VPN (IPsec LAN-to-LAN) over the Internet.



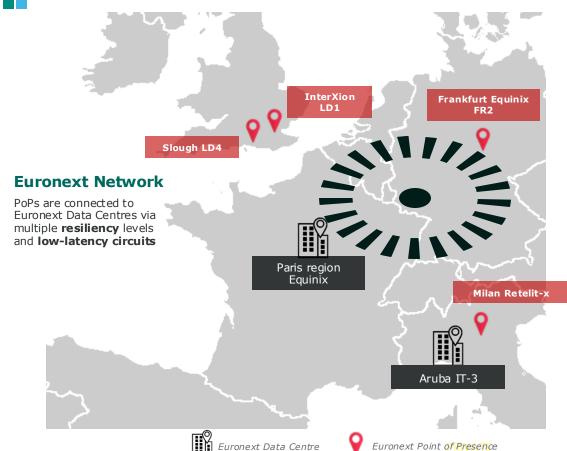
Client





Euronext **Application** Services

Euronext data centres and network





EMC Connectivity Model

- Connection is realised through circuits and devices provided by Euronext
- Available in Euronext Data Centres and Points of Presences (PoPs)
- Access to Production, DR and test environments
- 24x7 fully monitored and managed service
- Bandwidth options: 2 Mbps, 10 Mbps, 100 Mbps, 1 Gbps and 10 Gbps



CMC Connectivity Model

- Connection is realised through access ports on Euronext devices where the clients deliver their own circuits
- Available in Euronext Data Centres and Points of Presences (PoPs)
- Access to Production, DR and test environments
- Bandwidth options: 10 Mbps, 100 Mbps, 1 Gbps and 10 Gbps



VPN LAN to LAN

 Available in Euronext Data Centres with access to test environment only



Direct connectivity: pricing model

Connectivity pricing is based on 2 main components

1. Infrastructure +



2. Products



Connectivity Service

Access port in CMC Circuit and devices in EMC

Products configured on the infrastructure (Application **Services Fees ASF**):

- √ Trading Services
- √ Market Data (cash and) derivatives for each Euronext market)
- ✓ Post Trading Services

CMC services

EMC services

In this model, clients that are already connected to Euronext for other services can rely on the same connectivity for post-trading services as well

Only additional fee is the Application Service Fee



Direct connectivity: how to order

CLIENTS ALREADY CONNECTED TO EURONEXT NETWORK (CMC or EMC)

Clients should **contact the Client Connectivity Team** at <u>connectivity.support@euronext.com</u> and arrange to sign a **Euronext Change Request document** to add post-trading services to their existing connectivity

NEW CLIENTS (not already connected to Euronext network)

Clients wishing to order new direct connectivity to Euronext must **sign a Connectivity Agreement** with Euronext.

The Connectivity Agreement is made up of the:

- Euronext Connectivity Order form*
- Euronext Connectivity Services Specific Terms*
- Euronext Data Centre Services General Terms and Conditions
- Service and Technical Descriptions*
- The above documentation is available on the Euronext Connect Portal, with the exception of the Service and Technical Description documents which is sent upon request only
- * Different versions for CMC/EMC



Indirect connectivity and how to order



Connection via Service Provider

The authorised Euronext Service Provider is responsible for the client's connection to Euronext





As an alternative to the Euronext Connectivity services, clients can rely on authorised Euronext Service Providers.

Clients wishing to explore this option should **contact their preferred service provider and sign a connectivity agreement with them**, or ask them to add post-trading access to their existing connectivity.

The **list of service providers** already authorised for Euronext Trading Services is available on the **Euronext website**.



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