

EURONEXT BORSA ITALIANA OPTIQ® MIGRATION FREQUENTLY ASKED QUESTIONS

27 JULY 2022 - VERSION 3.0

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GENERAL

What was the rationale behind Euronext's acquisition of Borsa Italiana?

The acquisition of Borsa Italiana signifies another key milestone in the delivery of Euronext's vision to build a consistent pan-European marketplace offering best-in-class capital market services. The completion of the transaction further strengthens Euronext's position as the leading pan-European market infrastructure and the leading venue for capital markets in Europe.

Euronext intends to leverage its enhanced capabilities to further penetrate European capital markets and serve as the backbone of the Capital Markets Union in Europe, while at the same time supporting local economies. Local investors, market members and issuers of each Euronext market have access to a significant range of active institutional investors across Europe and worldwide. The transaction expands the Group's strategic prospects in a rapidly changing environment and is expected to translate into new opportunities for growth, geographical expansion, business diversification and product innovation.

An integration plan has been developed, across several workstreams, under the oversight of an Integration Management Office, including representatives of both the Borsa Italiana Group and Euronext.

Will Borsa Italiana markets migrate onto Euronext's Optiq® platform?

Yes, Borsa Italiana markets will migrate onto Optiq (note that the Agrex market will be wound down alongside the migration of Borsa Italiana on Optiq®). However, the MTS electronic fixed income markets will remain on a separate technology stack.

What are the benefits of the migration for clients?

Euronext is confident that the migration of the Borsa Italiana markets onto Optiq will increase Borsa Italiana's member base (bringing on board Euronext members that are not currently connected to Borsa Italiana markets) and expand the service and product offerings currently on offer to Borsa Italiana's clients (leveraging existing Euronext value-added services which could be of interest to Borsa Italiana's clients).

We aim to boost investor activity and volumes on Borsa Italiana markets. Ultimately, this will sustain Borsa Italiana's market share and secure the viability of its markets.

What has been your experience in past exchange acquisitions?

Euronext Dublin and Oslo have performed very well since their integration in 2019 and 2020 respectively, and the integrations ran smoothly. The Dublin and Oslo management teams were successfully integrated into the Euronext governance framework, and the Central Bank of Ireland and Norwegian Financial Supervisory Authority joined the Euronext College of Regulators.

Euronext Dublin migrated to Optiq in February 2019, allowing Irish capital markets participants to access the largest single pool of liquidity in Europe, with strong tangible benefits for market participants.

Oslo Børs migrated its Equities markets to Optiq in November 2020, giving Oslo market participants access to Euronext's single pool of liquidity and single order book just 17 months after joining Euronext and 21 months after Euronext Dublin's successful migration. The Oslo Derivatives markets followed in December 2020.

What is the proposed timeframe for the integration of Borsa Italiana?

The completion of the transaction took place on 29 April 2021 and we are working on the integration process and associated timelines. Euronext teams and Borsa Italiana teams have gone through an extensive period of discovery sessions and presentations to work on the integration. Subject to regulatory approval, the anticipated timeline for the migration is split into three phases and is outlined below:

Migration phase	Target date (anticipated)	Market
Phase 1	27 March 2023	Milan Equity Markets (incl. MIV Market)ETF Market
Phase 2	11 September 2023	Milan Warrants & Certificates Market (SeDeX)Fixed Income MarketEuroTLX
Phase 3	Date tbc	Milan Financial Derivatives MarketMilan Commodity Derivatives Market

An Optiq upgrade for Euronext's legacy clients will start end of 2022.

Further announcements will be made in due course.

What is the proposed timeframe for Contingency migration plan?

Contingency migration plan for Phase 1 is as follows:

Contingency External Dress Rehearsal: 1 April 2023

Contingency Go-Live: 17 April 2023

Contingency migration plan for the other phases will be communicated in due course.

Could you elaborate on the potential synergies?

The Euronext ambition for the next three years was announced to the market in November 2021 as part of the 'Growth for Impact 2024' company strategic plan. This includes the group synergies.

For further information, please refer to <u>Investor Day 2021 | euronext.com</u>.

What are the main contacts for technical questions on the migration?

The Client Support teams can be reached out via mail or phone using:

- Optiq Migration Support team: optiqmigration@euronext.com
- **Euronext Support team**: +33 1 8514 8585 (press 4)
- Euronext Borsa Italiana Support team: +39 02 4541 1399

For further information about the Borsa Italiana Optiq Migration, you can also contact your Sales Representative.

Webpages have been set up on both the Euronext and Borsa Italiana websites:

Borsa Italiana Optiq migration | Connect (euronext.com)

Borsa Italiana Optiq migration | Borsa Italiana website

Please refer to the following documents about the Borsa Italiana Optiq migration:

- Guide to the Euronext Trading System Borsa Italiana Migration to
 Optiq: available for download on both the <u>Euronext</u> and <u>Borsa Italiana</u> websites
- Migration Guidelines: available for download on both the <u>Euronext</u> and <u>Borsa</u>
 Italiana websites
- Webinar 9 February 2022: Functional Changes
 Webinar 14 June 2022: General Guidelines for the Migration

We invite you to also refer to other documentation on how Optiq works (documentation will be updated in due course with expected changes) and latest shared information:

- Derivatives Markets I How the market works
- Cash Markets I <u>Optiq Kinematics Specifications</u>
- Connectivity to the markets I <u>Optiq OEG connectivity Specifications</u>

TRADING

What products or services do you expect to launch that will benefit Euronext members, post-migration?

Euronext is investigating the possibilities of launching new products and services. However, we do not plan on launching them on Day One of the migration to Optiq. Completing the migration is the number one priority for the Euronext Group.

Could you describe some of the major benefits the clients will get by migrating to Optig?

Although Millennium IT and SOLA have been satisfactory and resilient to date, the migration to Optiq will provide member firms, ISVs / ASPs and Data Vendors with a state-of-the-art platform.

Being a latest-generation trading platform, Optiq will offer improved latency (below 100 microseconds and with reduced jitter), scalable capacity, and access to multiple asset classes through the same trading protocols as all other Euronext markets (native SBE and FIX 5.0). Coupled with the integration of our data centres, Optiq will also offer additional opportunities to extend trading activity to legacy Euronext markets, upon client choice, to maintain different protocols for different markets or asset classes.

In summary, the migration to Optiq will offer additional opportunities for participants to optimise their trading strategies and to grow their business across new asset classes and geographies, with limited investment.

In addition, Optiq offers the necessary flexibility to be configured in a way that will guarantee service continuity for the existing trading services offered by Borsa Italiana, including specific trading models such as Trading After Hours and the Market for Investment Vehicles, as well as direct distribution and takeover bids (non-exhaustive list).

Will there be any functional changes to the Optiq trading platform?

Yes, the Borsa Italiana Migration onto Optiq® will result in functional changes to the Optiq trading platform.

The key goal of the Optiq migration project is to take the best from the current experience of Borsa Italiana and Euronext, maintaining key local specificities with strong market value and harmonising across markets elsewhere.

Several core Optiq functionalities **will be adopted** by Borsa Italiana, in some cases with **upgrades** from the successful experience from MIT Exchange or SOLA.

A few Borsa Italiana functionalities **will be decommissioned** due to **limited usage** by participants, or to favour **harmonisation** across all Euronext markets.

Finally, some existing functionalities of the Italian markets **will be introduced** into Optiq.

Functional changes are detailed in the document 'Guide to the Euronext Trading System – Borsa Italiana Migration to Optiq' (available since March 2022) and external specifications will be produced in due course.

What does that mean for me as a client?

Trading member firms, Clearing member firms, ISVs/ ASPs and Data Vendors – legacy and new – will be invited to set up, test and validate their connection to Euronext systems for the migration, as well as prepare all their set-ups to trade on Euronext systems.

Trading member firms, Clearing member firms, ISVs/ ASPs and Data Vendors will also be invited to define and set up their arrangements with third parties such as CCPs and Network providers.

Will Sponsored Access be made available on Optiq? Will it be available on Day One?

Yes, a Sponsored Access functionality will be available on Optiq to Borsa Italiana and legacy Euronext clients. It is our intention to offer Sponsored Access services via RiskGuard for all Euronext Cash markets (shares, ETFs and fixed income) on Day One.

Will BTS, the trading workstation used by Italian Markets, be maintained?

Yes, BTS will remain and the plan is to extend the workstation to all other Euronext markets.

How will static data be provided? Will it be through EFS files as it is currently for Euronext or via SFTP files as it is currently for Borsa Italiana?

The current Optiq model in place for Euronext (EFS files) will be extended to the Italian markets. Note that the layout of the files may change as a consequence of the functional changes that will be applied (further information will be provided in the technical specifications once available).

What does the discontinuation of double-sided quotes on the Italian cash markets technically mean for legacy Euronext markets?

The discontinuation of double-side quotes will have no impact on legacy Euronext markets.

Do you expect the format of the TVTIC to change once it is provided in a dedicated field in Optiq?

The new trading venue transaction identification code (TVTIC) format is still under discussion. Euronext is currently working on a Trade Unique Identifier with a different format to the current TVTIC format in place on legacy Euronext markets. Once available, the new Trade Identifier will become the unique format of the TVTIC for all Euronext markets, including the Italian markets. Technical Documentation is already available on the Connect website, as well as the timeline for the migration shared during the webinar of 14 June 2022.

When will the new TUI be added to SBE and FIX Trade Messages? How? When will it be used as the TVTIC?

At the go-live of the TVTIC Phase 1 (September 2022), the new TUI will be added to SBE and FIX Trade Messages but it will not be mandatory to use the TUI as TVTIC until the go-live of TVTIC Phase 2 (November 2022).

Wil it possible to have the same TVTIC on different MICs and on different months?

Potentially yes, as the TVTIC is guaranteed to be unique per market identifier code (MIC) and for at least 1 month.

Cross and BTF functions will be replaced by the Trade Confirmation System. What does this imply for cross within bid offer? Will it be possible to have a similar function available also during Trading at Last?

The current services offered through the Euronext Trade Confirmation System (TCS) will be extended to Italian markets, replacing cross and BTF orders. Subject to regulatory approval, it will also be possible to enter negotiated transactions after market close, at prices linked to the last trade price for the day. Full details will be confirmed in an update to the 'Guide to the Euronext Trading System – Borsa Italiana Migration to Optiq'.

Will Borsa Italiana continue to develop the legacy platform before migration?

No new development will be made on the current Borsa Italiana platforms between now and the migration completion.

Will Borsa Italiana markets be accessible via the Logical Accesses already in use for legacy Euronext markets?

Yes, the same Logical Access will be able to be used to trade on all Euronext markets of the same segment (Equities, ETFs, Warrants & Certificates, Fixed Income or Derivatives), including Italian markets (always depending on the client's membership authorisations for each marketplace).

Will the market model of each asset class change together with the migration to Optiq?

The existing Optiq Request for Execution (RFE) functionality will be extended to the Italian Warrants & Certificates markets (SeDeX and Cert-X). All functional changes are outlined in the 'Guide to the Euronext Trading System – Borsa Italiana Migration to Optiq'.

Will the Italian instruments be on dedicated partitions of the relevant Optiq segments or will they be on the same partitions as existing Euronext instruments?

Instruments on Euronext markets belonging to the same asset class (i.e. part of the same Optiq segment) are load-balanced over the different partition(s) of a segment.

Load-balancing does not take into consideration the Euronext market that the instrument belongs to and therefore there will be no dedicated partitions for Italian instruments.

Will instrument groups change with the migration? Will there be a way to identify the Borsa Italiana instruments (e.g. MIC code)?

Existing trading groups on Optiq for the legacy Euronext markets will remain.

Trading groups dedicated to Italy will be defined. More information will be provided in due course.

Will there be changes to pricing and fees?

Further announcements will be made on this topic in due course. Euronext is reviewing this topic whilst working on the integration process in parallel.

What are the legal impacts for me as a client?

Legal resources will be required to approve new and updated sets of legal documentation.

Can you please share what is going to happen to the TAH market (when will it migrate, on which partition, etc.)?

The Trading After Hours (TAH) market will migrate in Phase 1 and will be traded via the Euronext Block (MTF) segment.

Will the migration also impact the CPR reporting delegation service? If yes, will it be a smooth transition or will a new contract be needed?

The migration of the Commodities Position Reporting (CPR) delegation service will take place in phases as follows:

- SeDeX and Cert-X (both Warrants & Certificates): together with Phase 2 of the Optiq migration.
- IDEX (Energy Futures): together with Phase 3 of the Optiq migration and will involve the move of the service to Saturn.

Will there be any changes to the minimum template version supported?

No backward compatibility breach of SBE templates is foreseen with the migration. In any case clients are strongly advised to update the SBE template regularly.

Are the changes on mandatory short codes and posting mode for Dutch Funds both applicable to FIX and SBE interfaces?

Yes, the changes on mandatory short codes and posting mode for Dutch Funds are applicable for both FIX and SBE interfaces, and also for GUI.

Will the counterparty IDs be provided for non-cleared Italian markets?

Counterparty ID is a field present in the Fill message, populated with counterpart Firm IDs in case of Internal Matching Service (IMS) and Bilateral trades. This is true for legacy Euronext markets and will be true for Italian markets once they have moved to Euronext.

MARKET DATA

Will there be any functional changes to the Optiq Market Data Gateway (MDG)?

The Borsa Italiana Migration onto Optiq will result in changes to the data provided via the Optiq Market Data Gateway (Optiq MDG). Trading member firms, ISVs/ASPs and Data Vendors will be invited to set up, test and validate their connection to Euronext systems for the migration, as well as prepare all their set-ups to receive the market data.

Euronext and Borsa Italiana teams, together with the regulators, are currently assessing the differences between Euronext and Borsa Italiana models. Details will be formalised and communicated in due time.

Will Borsa Italiana market data be disseminated via dedicated channels?

Yes, new dedicated market data channels will be set up for the dissemination of Borsa Italiana data via the Optiq Market Data Gateway (MDG). New and updated documentation will be provided throughout the course of the migration to provide clients with the technical information they need. This documentation will be available in the ITDocumentation section of the Euronext Connect Customer portal (and Borsa Italiana Website).

What will the minimum bandwidth requirements be for Borsa Italiana markets?

Minimum bandwidth requirements will be communicated in due course. Italian markets will be disseminated by Optiq Market Data Gateway according to the three Optiq standard shaping bandwidth options:

- 100Mbps
- 1Gbps
- 10Gbps

Will the current TCP market data service provided by Borsa Italiana still be provided after the migration?

For Italian Markets, a TCP-compressed feed will be provided to cover requirements of low bandwidth customers.

When will MDG Lite (TCP-Compressed market data services) specifications be provided? When will this service be available in EUA? When will it go live?

Specifications will be published shortly and the EUA will be available in September 2022. MDG Lite will go live in Phase 1, that is, end of March 2023, as it applies only for Borsa Italiana markets.

What will happen to the existing GTP Market Data connection to Italian markets?

GTP Market Data will be discontinued progressively in line with the migration of Italian markets to Optiq: Milan Equities and ETF GTP Market Data will be decommissioned together with Phase 1 of the migration, Fixed Income and Warrants & Certificates GTP Market Data with Phase 2, Derivatives with Phase 3.

There will be no parallel run for any markets; the migration will be a hard cutover, market by market.

Channels for Italian markets will be communicated in due course.

When will be GTP and GTP Lite be decommissioned?

GTP and GTP Lite will remain available for markets running on the MIT and SOLA platform. For each market moving to Optiq, the corresponding market data will move from GTP/GTP Lite to MDG/MDG Lite.

When can we expect Market Data Gateway specifications supporting the migration to be released?

Details on Market Data Gateway channels for Italian markets are available in the 'Guide to the Euronext Trading System – Borsa Italiana Migration to Optiq'.

Will there be any functional changes to my non-real time data products (historical data/corporate actions notices/reference data products)?

The Borsa Italiana migration onto Optiq® and surrounding systems will result in changes to non-real-time data products such as historical data files, reference data files and corporate actions / notices data. Clients will be informed of any changes to the non-real-time data products in due time.

If you have any questions on the Market Data licensing of Borsa Italiana, please contact marketdataBIT@euronext.com or DataByEuronext@euronext.com.

Is there any impact on MDG expected in 2022 (before the Borsa Italiana migration)?

Yes, in particular the dissemination of the TVTIC via MDG. Information will be shared in external specifications & operational notices.

When introducing CFTS, will all the legacy platforms/systems for exchanging files will be decommissioned (e.g. API for EFS, HTTPS, etc.)?

At go-live, the new CFTS (Common File Transfer System) will run in parallel with all legacy platforms/systems for exchanging files (e.g. API for EFS). Note that HTTPS will be available with CFTS starting from Phase 2 (Q4 2022).

As part of the CFTS rollout plan, clients will have to move to CFTS and legacy platforms will be decommissioned (decommissioning dates to be confirmed and communicated in due course).

Will non-members have access to the reference files?

Yes, non-members can already have access to reference data files (e.g. Market Data Clients).

Will Euronext stop publishing explicit static/dynamic collars in the Market Update message for Cash (replaced by new APF method) as currently done in Derivatives?

There will be no changes to the publication of explicit static/dynamic collars in the Market Update message. The publication of new Order Price Control collars will be added.

CONNECTIVITY

Will I be allowed to use the same network connection I am currently using?

Euronext customers already connected to the Euronext Data Centre in Aruba, as a consequence of the Euronext Data Centre migration in June 2022, will be able to leverage their connectivity solution to connect to the Borsa Italiana markets once the

Borsa Italiana markets are migrated to the Optiq trading platform (and the Aruba Data Centre).

Legacy Borsa Italiana customers can connect to the Aruba Data Centre using any of the Euronext connectivity solutions provided (CMC, colocation, Service Provider, Bit Network operated by Borsa Italiana). For additional information, please refer to the Service Description Brochure, available on Connect.

Clients currently connected to Borsa Italiana through the LSE backbone should order an alternative connectivity option. Euronext is planning to migrate all these clients by mid-September 2022.

Will it be possible to connect from Aruba IT3 DC to BITnet and from BITnet to Aruba during the migration (i.e. while Borsa Italiana markets will be partially in Aruba and partially in BITnet)?

Yes. To facilitate the transition period between the Euronext Data Centre migration and the Borsa Italiana migration to Optiq, Euronext will provide clients with connectivity between the Euronext and Borsa Italiana primary Data Centres until completion of the Borsa Italiana migration to Optiq.

For more information, please contact your sales representative or DCMigration@euronext.com

When will LSEG discontinue Borsa Italiana connectivity?

Borsa Italiana connectivity via LSEG is expected to be discontinued by the end of Q2 2022. Euronext will liaise with clients to help them set up alternative connectivity routes.

What is the alternative to connect to Borsa Italiana once connectivity via LSEG is discontinued?

Connectivity alternative options are:

- Connections to new Euronext Data Centre (including colocation, CMC in Aruba, CMC at London PoP)
- Other connectivity options directly to current Borsa Italiana Data Centre (BIT Network, CMC, colocation)

Where can I find the list of Service Providers?

The list of Service Providers is currently available on the <u>Borsa Italiana website</u> and on the <u>Euronext website</u>, and will be updated throughout the migration.

POST-TRADE

What will happen to the post-trade process (settlement and custody) for Milan, since Euronext also acquired CC&G and Monte Titoli? What will change?

For Italian markets, the target post-trade clearing set-up will remain unchanged. It will continue to be offered by Euronext Clearing (former CC&G) as the incumbent CCP for clearing and Euronext Securities Milan (former Monte Titoli) for settlement and custody on Borsa Italiana markets.

Please refer to the Euronext 'Growth for Impact 2024' Strategic Plan for more information on the clearing project.

What will be the target post-trade clearing set-up?

The target post-trade clearing set-up will remain unchanged. The Euronext Optiq platform will report on executed trades to the X-TRM system¹ of Euronext Securities Milan.

Any trades executed on Cash Equity, Fixed Income, Warrants & Certificates instruments offered on the Borsa Italiana markets are sent to the Euronext Securities Milan X-TRM system, whether they are guaranteed or not guaranteed (i.e. not cleared by CCPs). For guaranteed trades, Euronext Securities Milan reports on trades to the CCPs.

On Equities (including ETFs), the current preferred clearing model with EuroCCP and LCH Ltd remains unchanged.

REGULATORY FRAMEWORK

How will Milan be regulated and what regulatory roles will it have?

The Milan regulated markets will remain under the regulatory authority of their local National Competent Authority, Consob, located in Rome.

MIGRATION STRATEGY

Will existing Euronext members also be required to sign a new Production access agreement? Are members required to fill out all the paperwork if they connect through an ISV?

A detailed list of contracts to be signed by each type of clients (Member Firms, ESPs/ASPs, Real Time Data Clients, ISVs) is available in the Migration Guidelines document.

Will there be a transition period or will Italian Markets remain as they currently are until the very last day before the migration, and then connect to Aruba on the first day of the migration?

Current Italian markets will remain as they are until the migration (as per shared sequencing). There will be a hard cutover market by market: on the Friday preceding the go-live of each phase, trading will take place via the current set-up and on the go-live Monday, trading will take place on Optiq in Aruba IT3. Good Till Date Orders will not be kept persistent when markets migrate to Optiq.

How will I be able to connect to the different Euronext test environments during the migration?

Throughout the migration, Euronext is committed to providing continuity in all test environments between the current and future data centres for all forthcoming Optiq®

¹ X-TRM is the system operated by Euronext Securities Milan which centralises the post execution processing of any transaction executed on Borsa Italiana market, handling netting and the production / routing of settlement instructions and providing relevant details to the Central Counterparties for guaranteed transactions.

releases and to allow clients to perform all required testing in the new data centre prior to the migration.

Further details are available in the Migration Guidelines.

When will EUA be available for connectivity tests so I can anticipate before the opening of the functional testing period?

The EUA is expected to be available in October 2022.

How many dress rehearsals in Production will be planned?

For Phase 1, dress rehearsals are planned for Saturday 25 February 2023 and Saturday 11 March 2023.

For Phase 2, dress rehearsals are planned for Saturday 8 July 2023 and Saturday 22 July 2023.

Details for the phase 3 will be provided in due course.

Are ISVs required to participate in the Dress Rehearsals or just the Members?

Members, ASPs, ESPs and Market Data Clients are asked to attend the dress rehearsals. ISVs are likely to attend together with (and providing support to) their client(s).

Can you please outline the changes to Optiq between now and the Phase 1 of the Migration?

The main changes are the introduction of the Trade Unique Identifier (TUI) and the new CFTS file transfer platform. Further details are provided in the Migration Guidelines.

Will Euronext update its technical documentation?

Yes. Throughout the Borsa Italiana Optiq migration project, Euronext will provide communication and updates through dedicated channels, in order to ensure that all clients have access to clear and useful information for the duration of the project.

The following communications will be sent to communicate key details and clients should ensure that they subscribe to the relevant distribution lists.

- **Info-Flashes**: these operational communications will announce key milestones of the project, and details that all clients should be aware of, such as: publication of documentation, the opening of each platform, and confirmed Production implementation dates. Clients can subscribe to Info-Flashes through the 'My Subscriptions' page on the <u>Euronext Connect Customer portal</u>.
- Operational Notices: these operational communications will announce technical updates on the project. Clients can subscribe to Operational Notices through the 'My Subscriptions' page on the <u>Euronext Connect Customer portal</u>.
- Technical Documentation: new and updated documentation will be published throughout the course of the migration to provide clients with the technical information they need. This documentation will be available in the IT
 Documentation section of the Euronext Connect Customer portal and on the Borsa Italiana website.

What will the next milestones be for me as a client?

For all our clients to experience a smooth migration of the Borsa Italiana markets onto Euronext systems in line with the timeline determined, whether they are Borsa Italiana clients or legacy Euronext clients, we kindly encourage them to secure time, resources and budgets in 2022 and 2023. We are conscious of the efforts required from our clients and we thank you in advance.

Technical resources and capabilities will be required to configure and prepare systems to migrate, and to update connectivity links.

The next steps for clients are listed in the Migration Guidelines. In particular:

- Clients have received the Membership pack containing the list of contracts to be signed and should ensure that all appropriate documents are executed and returned to Euronext (details on what each client must sign can be found in the Migration Guidelines)
- Italian instruments will be available in Next-EUA in October 2022
- Further Webinars and Functional User Groups will be organised to keep clients updated.

WHAT'S NEW?

Revision No./ Version No.	Date	Change Description
1.0	11/01/2022	Version 1.0
2.0	28/02/2022	Additional questions
3.0	27/07/2022	Additional questions and phase 2 - related information

Contact

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