

Document title

**EURONEXT OPTIQ PHASE 2: ORDER ENTRY GATEWAY (OEG) AND  
MATCHING ENGINE (ME) DRESS REHEARSAL GUIDELINES FOR ALL CASH  
MARKET SEGMENTS ON 19 MAY 2018**

Document type or subject

**EURONEXT OPTIQ PHASE 2: ORDER ENTRY GATEWAY (OEG) AND  
MATCHING ENGINE (ME)**

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## EXECUTIVE SUMMARY

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Customers are invited to test the Euronext Optiq® Phase 2: Order Entry Gateway (OEG) and Matching Engine (ME) on All Cash Market Segments during the Dress Rehearsal organised in the Production environment on Saturday 19 May 2018 between 11:00 and 16:00 Central European Summer Time (CEST).

This Dress Rehearsal will allow customers to test the target Production implementation of Order Entry Gateway (OEG) Cash in advance. **Customers will not be authorised to take part in the Dress Rehearsal week-end unless they have (i) validated their conformance test, (ii) confirmed Telnet connectivity to Production and (iii) ordered their Order Entry (OE) Sessions for Production.**

Markets will close on the evening of Friday 18 May 2018 and open on Monday 21 May 2018 as usual, without taking the activity of Saturday 19 May 2018 into account. Customers are responsible for purging all market data and order entry data sent and received during any Saturday test.

## PREFACE

### PURPOSE

The purpose of this document is to provide customers with a detailed description of the Euronext Optiq® Dress Rehearsal on Saturday 19 May 2018.

### ASSOCIATED DOCUMENTS

This document should be read in conjunction with the following documents.

TITLE	DESCRIPTION
Euronext Optiq Phase 2: Order Entry Gateway (OEG) and Matching Engine (ME) Migration Guidelines	Guidelines for migration from UTP to Optiq
Optiq Euronext File Services User Guide	EFS user guide
Euronext Cash Markets - Optiq OEG Connectivity Configuration specifications	Description of the Production connectivity configuration
Euronext Cash and Derivatives Markets – Optiq File Specification	Description of the files for Cash and Derivatives
Euronext Cash and Derivatives Markets – Optiq MDG Client Specifications	To be used by all segments for phase 2
Euronext Cash Markets - Optiq OEG Client Specifications - SBE Interface	Optiq binary protocol specifications for phase 2
Euronext Cash Markets - Optiq OEG Client Specifications - FIX 5.0 Interface	Optiq FIX 5.0 protocol specifications for phase 2
Euronext Cash Markets - Optiq Kinematics Specifications	
Euronext Cash Markets - Optiq & TCS Error List	

### DOCUMENT HISTORY

The following table provides a description of all changes to this document.

VERSION NO.	DATE	CHANGE DESCRIPTION
1.1	May 2018	Second version of the document, bringing additional information on the scope of tests
1.0	May 2018	First Version of Dress Rehearsal Guidelines for Euronext Optiq® Phase 2: Order Entry Gateway (OEG) and Matching Engine (ME)

### SUPPORT

Please find below the Optiq Support Desk contact details, which has been established to ensure customer readiness by:

- sending information to customers related to Optiq
- answering customers' questions related to Optiq
- assisting customers in their testing and validation on the EUA environment
- providing follow-up on customer conformance testing
- assessing customers' state of readiness with regards to technical changes

**Euronext Market Services Equities and Derivatives:** Tel: +33 1 85 14 85 85 Email: [optiq@euronext.com](mailto:optiq@euronext.com)

Further Information

- For additional product information please visit: [www.euronext.com/optiq](http://www.euronext.com/optiq)
- For Optiq documentation please visit: [www.euronext.com/optiq/en/documentation](http://www.euronext.com/optiq/en/documentation)

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## 1. SCOPE OF THE TEST

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### 1.1 TEST OVERVIEW

Customers are expected to conduct the following tests:

- Secure network resources on the day of the Dress Rehearsal to validate firewall / security path
- Connect to the Production environment
- Inject orders
- Purge the book at the end of the day and restore the order book to Friday night

Validate their participation at the end of the day [through the following web form.](#)

### 1.2 ACCESS TO SERVICES & APPLICATIONS

Euronext services and applications will be set up as follows for the rehearsal:

- Optiq Order Entry and MDG Phase 2 for All Cash Market Segments, including Drop Copy

### 1.3 DETAILS

Below please find details relevant to the Optiq Cash Order Entry (OEG) and Matching Engine (ME) Dress Rehearsal tests for Cash Segments on Saturday 19 May 2018.

**Between 11:00 and 15:00 CEST, customers are required to:**

- Connect to the Production environment:
  - ☐ Test and validate the new Optiq Order Entry logical connectivity on Cash market segment.
  - ☐ Log on through their OEG connections for Cash:
    - OEG connectivity for: Fixed Income, Equities, Funds, Structured Products (Warrants, Certificates and Structured Notes) and Luxembourg Stock Exchange.
    - Perform Market Data checks on MDG Phase 2 (all Cash segments except Indices and TCS).
    - Check the market data broadcast via multicast by connecting their application/feed handler to Real time and Snapshot.
    - Retrieve required files from Euronext Files Services (EFS).
- Inject orders
  - ☐ For example
    - Any segment order through OEG, except for Fixed Income and TCS.
  - ☐ Customers can verify the publication of market data through the expected MDG channels.
- Purge the book at the end of the day and restore the order book to Friday night
  - ☐ This applies to any internal data stored on the client side.
- Validate their participation at the end of the day via two web forms:
  - ☐ The [Dress Rehearsal Participation Form](#)

**Between 15:00 and 18.00 CEST, Euronext may conduct further internal tests.** Customers are invited to ignore any data received after the Dress Rehearsal tests.

## 2. OUT OF SCOPE

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The following services / markets are out of scope for this rehearsal:

- Cash market access via CCG
- Functional tests on the Fixed Income segment
- Tests with LCH
- End of day files
- Functional high availability
- Derivatives market
- TCS
- Saturn



### 3. CUSTOMER SUPPORT

Customer support is provided as follows:

- On Saturday 19 May, support will be provided by Euronext Market Services (EMS) and the Optiq Support Desk from 11:00 to 16:00 CEST;
- Customers who experience issues during the Dress Rehearsal are invited to contact the Optiq Support Desk during the week following the dress rehearsal tests.

In the case of questions related to the tests, customers may contact the **Optiq Support Desk** ahead of the tests and during the Dress Rehearsal by email at [optiq@euronext.com](mailto:optiq@euronext.com) or **EMS** by phone at +33 1 8514 8585.

- Real-time events will be posted on the Market Status website during the Dress Rehearsal validation at: [www.euronext.com/market-status](http://www.euronext.com/market-status)

## 4. MAIN PRINCIPLES OF THE TEST

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Customers will be notified to connect to the platform via the [Market Status webpage](#).

Upon confirmation of start of test customers should be able to connect to the Euronext OEGs and MDGs for the market segments below:

- Fixed Income
- Equities
- Funds
- Warrants and Certificates
- Luxembourg Stock Exchange

The sequence for market opening is the following:

- Euronext will start a pre-opening trading session for all segments except for Fixed Income
- As soon as Euronext considers that Cash markets are ready to be fully operational, a continuous trading session will be set up on Optiq on all segments except for Fixed Income. Customers are invited to make sure that their internal systems and access means are correctly synchronised with Euronext Optiq.

Euronext would like to make this test as realistic as possible in order to draw the most relevant and useful conclusions, and therefore encourages customers to participate actively by sending orders.

## 5. TRADING DATES DETAILS

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The trading date used for the purposes of the test will be Saturday 19 May 2018. The order book situations will be those of Monday 21 May 2018 before the start of the pre-opening session, i.e. after the corporate events of the evening of Friday 18 May 2018. On the Equities, Funds, and Warrants and Certificates and Luxembourg Stock Exchange segments on Optiq, no orders will be present in the book.

Euronext invites customers to enter orders as they do in the Production environment.

MDG Standing data files for Cash markets will be made available on Saturday 19 May 2018 with the business date of Monday 21 May 2018. Please make sure you do not have any security in place that would prevent to process them.

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### 5.1 PRE-REQUISITES FOR TAKING PART IN THE DRESS REHEARSAL

It is mandatory for any customer expected to take part in the Dress Rehearsal week-end

- 1) To have validated their conformance test,**
- 2) To have confirmed Telnet connectivity to Production and**
- 3) To have ordered their OE Sessions for Production.**

Customers must have a Euronext File Services (EFS) account to access the Pre-Production Optiq Euronext File Services. Customers can request their account by contacting Customer Access Services (CAS):

- Phone: +33 1 85 148 589
- Email: [cas@euronext.com](mailto:cas@euronext.com)

## 6. DRESS REHEARSAL TEST SCHEDULE

**Note: All timings are approximate and are stated in CEST**

Timeline	Action	Cash	Derivatives
11:00	<ul style="list-style-type: none"> <li>Beginning of the test</li> <li>Referential Files are made available: New Cash Standing Data File will be provided on the Euronext File Server for Equities, Funds, Warrants and Certificates and Luxembourg Stock Exchange Segments. All Derivatives Standing Data Files will remain as today, with no change to the format (Indices, TCS will not be made available )</li> <li>- New OEG and MDG SBE template file for each individual Cash segment listed above will be provided on Euronext File Server</li> </ul>	✓	No
11:30	<ul style="list-style-type: none"> <li>Participants are invited to check the status and timeline on the <a href="#">Market Status web page</a></li> <li>Market Data: Optiq MDG Cash Technical “Start Of Day” messages should be broadcasted over Cash MDG <a href="#">Production multicast channels</a></li> </ul>	✓	No
12:00	<ul style="list-style-type: none"> <li>Euronext Optiq MDG Cash real-time Standing Data messages will be provided over MDG <a href="#">Production multicast channels</a></li> <li>Order Entry: Customers can validate their systems and connect their applications to the Euronext Production central systems: <ul style="list-style-type: none"> <li>- All Optiq Order Entry available via OEG</li> <li>- No Order Entry available via CCG</li> </ul> </li> </ul>	✓	No
12:15	<ul style="list-style-type: none"> <li>Start of pre-opening phase (Call) in Production for Equities, Funds, Warrants and Certificates and Luxembourg Stock Exchange Segments. Customers can connect and send orders to the Optiq OEG on of these Cash segments.</li> </ul>	✓ ✓	No No
12:30	<ul style="list-style-type: none"> <li>Opening and Continuous Trading Session for the Cash segments available.</li> <li>Customers can inject orders and perform trades on the Cash segments available.</li> </ul>	✓ ✓	No No
15:00	<ul style="list-style-type: none"> <li>End of customer tests</li> <li>Customers can disconnect from Euronext central systems</li> <li>A <a href="#">Market Status</a> message is sent confirming the end of the Dress Rehearsal</li> </ul>	✓ ✓ ✓	No No No
Post 15:00	<ul style="list-style-type: none"> <li><a href="#">Customers confirm test status via a dedicated participation form.</a></li> </ul>	✓	No
16:00	<ul style="list-style-type: none"> <li>Euronext may conduct internal tests.</li> </ul>	✓	No

Timeline	Action	Cash	Derivatives
18:00			

## 7. IMPORTANT REMINDERS

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During the test, Euronext will not be able to broadcast the real-time Cash Standing data messages over Optiq Market Data twice. Customers who have missed the broadcast of the referential data are requested to use the Optiq Cash Standing Data files made available on the [EFS](#).

Customers who have missed the Dress Rehearsals dates will be able to test access to Production on the migration week-end. Euronext will not consider any requests or potential customer issues encountered on the day of the Production migration if the customer has not taken part in the prior mandatory Dress Rehearsal.

## 8. ROLL-BACK FOR CUSTOMERS' INTERNAL SYSTEMS

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Upon completion of the Dress Rehearsal, customers must restore/rollback their internal Production systems to the state of Friday 18 May 2018 evening after the end of the trading session. It is very important that customers do NOT synchronise their order book with the data from the **tests** performed on Saturday 19 May 2018.

The Saturday 19 May 2018 session will not be taken into account in the Live/Production environment which will start on Monday 21 May 2018 as usual. Customers are requested to ensure their readiness for the next trading day's activities following any Saturday test.

**Customers are responsible for purging all market data and order entry data sent and received during any Saturday test.**

## 9. CONTACTS

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- On Saturday 19 May 2018, Euronext Market Services (EMS) Equities will manage the Pre-Production support of Market Data:
  - **Euronext Market Services Equities**
  - [optiq@euronext.com](mailto:optiq@euronext.com)
  - Tel: +33 1 85 14 85 85
- For any question(during the week) related to the test please contact:
  - **Optiq Support Desk**
  - [optiq@euronext.com](mailto:optiq@euronext.com)
  - Tel: +33 1 70 48 25 55
- For any question(during the week) related to EFS please contact:
  - **Customer Access Services (CAS)**
  - Tel: +33 1 85 14 85 89
  - [cas@euronext.com](mailto:cas@euronext.com)