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# **DATA CENTRE MIGRATION – GO-LIVE WEEKEND GUIDELINES**

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# INTRODUCTION

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## PURPOSE

The purpose of this document is to inform Euronext clients about the agenda and activities related to the Go-Live Weekend for the Data Centre Migration.

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## TARGET AUDIENCE

This document should be read by Euronext clients as preparation for the Go-Live of Aruba Data Centre on Monday 6 June 2022.

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## 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.	DATE	AUTHOR	CHANGE DESCRIPTION
1.0	26 May 2022	Euronext	First version

## ASSOCIATED DOCUMENTS

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

- Euronext Data Centre - Migration Guidelines v2.2
- Euronext Markets - OPTIQ OEG Connectivity Specifications v3.4 - Aruba Data Centre
- Euronext Optiq Market Data Gateway - Production Environment v3.1 - Aruba Data Centre
- Euronext Markets - OEG Connectivity Telnet Tests v3.2 - Aruba Data Centre

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## DEFINITIONS

- **Production** – Euronext Markets on Optiq and surrounding systems hosted in the Data Centre in Basildon, United Kingdom.
- **“New” Production** – Euronext Markets on Optiq and surrounding systems hosted in the Data Centre in Bergamo, Italy.
- **Disaster Recovery (DR)** – A Euronext Disaster Recovery event occurs when Euronext switches client systems processing from the Euronext production environment to the Euronext DR environment. The DR environment provides redundant standby systems to be used upon the failure of the Euronext Production environment.
- **“New” Disaster Recovery (DR)** – A ‘New’ Euronext Disaster Recovery event occurs when Euronext switches client systems processing from the future Euronext production environment to the future Euronext DR environment. The future DR environment remains hosted in the Data Centre in Saint-Denis, France, and must provide redundant standby systems to be used upon the failure of the Euronext “New” Production environment.
- **Dress Rehearsal** – The Dress Rehearsals will take place before the Go-Live weekend, allowing customers to test the target “New” Production Data Centre infrastructure and “New” Disaster Recovery.
- **Roll-back** – Data and applications are reverted back to the situation as on Friday evening, before each Dress Rehearsal.
- **SP** – Service Provider.
- **CMC** – Client Managed Connectivity.

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## 1. GO-LIVE WEEKEND

On Saturday 4 June 2022 (Go-Live Weekend), clients are invited to participate in the Go-Live preparation session in the Production environment hosted in the new Aruba Data Centre in Bergamo, Italy. Euronext will start all systems and clients can connect to Optiq and the web applications. For the complete schedule see [Section 1.2](#).

At the end of the Go-Live weekend, the data will be rolled back to the situation as it was on the previous Friday evening situation.

On Monday 6 June 2022<sup>1</sup>, all markets (Euronext and Bourse De Luxembourg) will be hosted on the new Production Data Centre - Aruba in Bergamo, Italy.

In the unlikely event that Euronext should decide not to continue with the migration, clients should be prepared for the Contingency Schedule.

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### 1.1 IMPORTANT DATES

DATE	ENVIRONMENT	DESCRIPTION
<b>04 June 2022</b>	"New" Production	<b>Go-Live weekend</b>
<b>06 June 2022</b>	"New" Production "New" Disaster Recovery	<b>Go-Live</b>

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### 1.2 SCHEDULE

Please find below the detailed schedule for the Go-Live Weekend (4 June 2022). Note that in the case of any changes to scheduled activities on the day itself, Euronext will keep clients informed through the [Market Status Webpage](#): <https://live.euronext.com/market-status>.

The schedule below describes the events leading up to the Confirmation of the Go and the activities that will follow this confirmation.

The contingency schedule is also set out below so that clients can prepare contingency resources and plans on their side, to be triggered in the unlikely event that Euronext decides not to move forward with the migration.

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<sup>1</sup> Pending regulatory approval and Go / No Go confirmation

## Schedule

TIME	DESCRIPTION
12:00 CEST	<p><b>Euronext starts Optiq.</b> Clients will be informed via the Market Status webpage when all Segments are up and clients are advised to validate their connection.</p> <p><b>Standing Data Files publication on EFS.</b> Euronext will publish all standing data files on Euronext File Services. The complete list of EFS files is provided in point 1.8.</p> <p><b>Note:</b> the Indices file (OptiqMDG_PROD_CashStandingDataFile_Indices_yyyymmdd.xml) will be published later at around 13:00 CEST.</p>
12:30 CEST	<p><b>Optiq has been started.</b> Clients start their systems and connect their applications to the <b>"New" Production</b> environment hosted in the Aruba Data Centre in Bergamo, Italy.</p> <p>As a reminder, clients should perform the log-on from all forecasted network sources (i.e. Colocation, CMC, Indirect Colocation, Indirect CMC) and for all Service Providers that may be used in Production.</p>
13:00 CEST	<p><b>Standing Data Files.</b> The Indices file (OptiqMDG_PROD_CashStandingDataFile_Indices_yyyymmdd.xml) is published on EFS at around 13:00 CEST.</p> <p><b>Note:</b> clients should note that all Standing Data Files will be republished again together with the Indices file, even though they were available earlier.</p> <p><b>Referential Data:</b> Market data referential messages are published over the Euronext Market Data Gateway.</p>
13:30 CEST	<p><b>Call Phase (Pre-Opening).</b> Clients can connect and send orders to the trading platform.</p>
13:40 CEST	<p><b>Continuous trading.</b> Clients can trade on all Euronext Markets including TCS.</p>
14:00 CEST	<p><b>Saturn.</b> Euronext aims to make the web application Saturn available to clients at around 14:00 CEST. If the application is available earlier, Euronext will confirm this via Market Status.</p>
14:30 CEST	<p><b>High Availability Event.</b> Euronext will simulate a failover on the Equities segment, Partition 11 – 212.107.95.5</p>
15:00 CEST	<p><b>Stop of all applications.</b> Euronext will stop all applications in the "New" Production environment hosted in the Aruba Data Centre in Bergamo, Italy.</p>
16:00 CEST	<p><b>Confirmation of the Go.</b> The confirmation will be communicated via Euronext Market Status and with the publication of an Info-Flash.</p>
16:15 CEST	<p><b>End of Day.</b> Clients can disconnect their applications from Euronext and perform their internal roll-back to prepare for the First Trading Day in the Aruba Data Centre on 6 June 2022.</p>

## Contingency Schedule – to be used in the unlikely event of a No Go decision

TIME	DESCRIPTION (ONLY APPLICABLE IN THE UNLIKELY EVENT OF A NO GO)
<b>15:00 CEST</b>	<b>Stop of all applications.</b> Euronext will stop all applications in the "New" Production environment hosted in the Aruba Data Centre in Bergamo, Italy.
<b>16:00 CEST</b>	<b>Confirmation of the No Go.</b> In the unlikely event of a No Go decision, Clients should be prepared for the activities below. The confirmation will be communicated via Euronext Market Status and with the publication of an Info-Flash.
<b>18:00- 19:30 CEST</b>	<b>Roll-Back to Basildon Data Centre.</b> Euronext will start the applications in the current Basildon Data Centre, United Kingdom, to reflect the situation for of the following Monday and so that clients can validate the roll-back of their own system.
<b>19:30 CEST</b>	<b>End of Day.</b> Euronext will stop all applications in the Basildon Data Centre. Clients can disconnect from all Euronext applications. It is <b>mandatory</b> that clients roll back their internal systems to the situation on the last trading day before the Go-Live Weekend (situation at the end of the previous trading session).

### 1.3 ROLL-BACK TO BASILDON DATA CENTRE

After the confirmation of the Go on Saturday 4 June 2022, and only in the unlikely event of a major outage on Aruba Data Centre, it is still possible for Euronext to decide to switch back to the Basildon Data Centre as disaster recovery site.

**Important:** please note that **the point of no return is 07:00 CEST on Monday 6 June 2022.** After this time Euronext does not consider a switch back to the Basildon Data Centre and Euronext will apply a standard failover procedure from Euronext primary data centre (Bergamo) to the Euronext Disaster Recovery site (St Denis) in case Euronext will deem it necessary.

The communication will be done via Euronext Market Status.

### 1.4 COMMUNICATION DURING GO-LIVE WEEKEND

During the Go-Live Weekend, Euronext will keep clients informed of all activities through the [Market Status Webpage: https://live.euronext.com/market-status](https://live.euronext.com/market-status). All clients are advised to subscribe to the Market Status alerts, which can be done through My Subscriptions menu on the [Euronext Connect customer web portal](#).

### 1.5 SCOPE OF THE GO-LIVE WEEKEND

The scope of the Go-Live Weekend is outlined below for markets, environments, applications and services.

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### 1.5.1 Markets

All Markets operated by Euronext and the Bourse de Luxembourg Market are in scope for the Go-Live weekend:

- Euronext Markets - All Euronext Cash & Derivatives Markets
- Other Market - Bourse de Luxembourg

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### 1.5.2 Environments

The following environments are in scope for the Go-Live weekend.

NEW TARGET ENVIRONMENT	NEW LOCATION
"New" Production	Aruba – Bergamo – IT

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### 1.5.3 Applications and services

The following applications and services are in scope for the Go-Live Weekend.

EURONEXT APPLICATION	SERVICES	"NEW" PRODUCTION
<b>Optiq</b>	<ul style="list-style-type: none"><li>▪ Order Entry Gateways (OEG)</li><li>▪ Market Data Gateway (MDG)</li><li>▪ Drop Copy</li></ul>	Connectivity and functional testing if required
<b>Euronext File Services (EFS)</b>	<ul style="list-style-type: none"><li>▪ Standing Data</li><li>▪ SBE templates</li><li>▪ Tick Sizes</li></ul>	Available (as of 12:30 CEST)
<b>EOD (End of Day)</b>	<ul style="list-style-type: none"><li>▪ Connectivity only, no files will be made available – Technical testing only</li></ul>	Available (as of 13:00 CEST)
<b>Trade Confirmation Service (TCS) Web</b>	<ul style="list-style-type: none"><li>▪ Web for Off-Market and Dutch Funds services</li></ul>	Available (as of 13:00 CEST)
<b>Saturn Web</b>	<ul style="list-style-type: none"><li>▪ Approved Publication Arrangement (APA)</li><li>▪ Approved Reporting Mechanism (ARM)</li><li>▪ Short Code Long Code Management (SLC)</li><li>▪ Off-Book On-Exchange Trade Reporting (OBOE)</li><li>▪ OTC Cleared functionalities</li><li>▪ Commodity Positions Reporting</li></ul>	Available (as of 14:00 CEST, the exact time will be confirmed via Market status)

**Note:** The Disaster Recovery environment will not be functionally available for client testing during the Go-Live Weekend. Telnet to "New" Disaster Recovery environment remains available at any time as of 4 April 2022 and is also available during the Go-Live Weekend.

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#### 1.5.4 Not in scope for the Go-Live Weekend

Clients should be advised that testing of post-trade systems and front-to-back testing are not available. Clients that wish to validate their front-to-back systems are invited to connect to the Next EUA environment to test all their post-trade applications.

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#### 1.6 GO-LIVE WEEKEND CHECKS

Clients are advised to connect their systems to Euronext during the Go-Live Weekend to perform preliminary checks to ensure that connection for the first day after Migration (Monday 6 June 2022) is secured.

##### **Go-Live weekend checklist:**

##### ■ **Log-on for OEG**

All Trading members are advised to perform a successful log-on to at least one segment they trade on.

Euronext expects that all clients already performed a log-on from **all network sources** (i.e. Colocation, CMC, Indirect Colocation, Indirect CMC) and **all Service Providers** that will be used in Production during the one of the past Dress Rehearsals.

Note: **Optiq OEG IP-Filtering** security will be put in place on 6 June 2022, meaning that only source IPs already registered for dedicated Firm IDs (Logical Access) will be allowed to receive Log-on acknowledgements.

1. For clients not impacted by the infrastructure change, the source IPs set-up is replicated from Basildon to Bergamo.
2. For clients impacted by infrastructure change, the following process applies:
  - a) For Direct clients, IPs are assigned and registered by Euronext.
  - b) For Indirect clients (clients behind Service Providers):
    - First, IPs are assigned by the SP according to the range assigned to the SP by Euronext.
    - Secondly, IPs are registered by Euronext upon the SP's request.

##### ■ **Access to Web Applications**

Trading members are advised to validate their access to the relevant web applications (EFS, Saturn, Trade Confirmation System, EOD).

##### ■ **Market data**

Clients can send orders and validate market data. However, this is optional on the Go-Live weekend.

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## 1.7 ROLL-BACK OF CLIENT APPLICATIONS

At the end of day on Saturday 4 June 2022, clients must restore/roll back their internal Production systems to reflect the conditions of Friday evening, including all corporate events.

It is important that clients do not synchronise their order book with data from the Go-Live Weekend 4 June 2022.

**Clients are responsible for purging all market data and order entry data sent and received during 4 June 2022.**

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## 1.8 TRADING DATE REFERENTIAL FILES

The trading date during the **Go-Live Weekend will reflect the date of the following Monday**. Since the instruments and orderbook will reflect the situation of the following Monday, all corporate events that took place the day before (on Friday evening) will be considered.

Please see below the complete list of the EFS files that will be available during the Go-Live Weekend on 4 June 2022.

Clients should be aware that the date on the filename will reflect that of Monday 6 June 2022, so for example the Block standing data file will be named: OptiqMDG\_Production\_CashStandingDataFile\_Block\_20220606.xml.

This logic is true for all files that will be published on Saturday 4 June 2022.

The following EFS files will be published on Saturday 4 June 2002 in the folders listed below:

### **Folder Block:**

- OptiqMDG\_Production\_CashStandingDataFile\_Block\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_Block\_yyyymmdd.xml

### **Folder Indices:**

- OptiqMDG\_Production\_CashStandingDataFile\_Indices\_yyyymmdd.xml

### **Folder Funds:**

- OptiqMDG\_Production\_CashStandingDataFile\_Funds\_yyyymmdd.xml
- OptiqMDG\_Production\_PrevDayCapAndVolTradFile\_Funds\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_Funds\_yyyymmdd.xml

### **Folder FixedIncome:**

- OptiqMDG\_Production\_CashStandingDataFile\_FixedIncome\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_FixedIncome\_yyyymmdd.xml
- OptiqMDG\_Production\_PrevDayCapAndVolTradFile\_FixedIncome\_yyyymmdd.xml

**Folder Equities:**

- OptiqMDG\_Production\_CashStandingDataFile\_Equities\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_Equities\_yyyymmdd.xml
- OptiqMDG\_Production\_PrevDayCapAndVolTradFile\_yyyymmdd.xml

**Folder WarrantsAndCertificates:**

- OptiqMDG\_Production\_CashStandingDataFile\_WarrantsAndCertificates\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_WarrantsAndCertificates\_yyyymmdd.xml
- OptiqMDG\_Production\_PrevDayCapAndVolTradFile\_WarrantsAndCertificates\_yyyymmdd.xml

**Folder BDL:**

- OptiqMDG\_Production\_CashStandingDataFile\_Bdl\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_Bdl\_yyyymmdd.xml
- OptiqMDG\_Production\_PrevDayCapAndVolTradFile\_Bdl\_yyyymmdd.xml

**Folder Current:**

- OptiqMDG\_Production\_MemberMappingFile\_ALL\_yyyymmdd.xml
- OptiqMDG\_Production\_CashTickSizeReferentialFile\_ALL\_yyyymmdd.xml
- OptiqMDG\_Production\_RepoSettlementPriceFile\_ALL\_yyyymmdd.xml

**Folder Forex:**

- OptiqMDG\_Production\_CashStandingDataFile\_yyyymmdd.xml

**Folder EquityDerivatives:**

- OptiqMDG\_Production\_CashTickSizeReferentialFile\_EquityDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_DerivativesStandingDataFile\_EquityDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_OpenInterestFile\_EquityDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_DerivativesTickSizeFile\_EquityDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_ReferenceSpreadsFile\_EquityDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_EquityDerivatives\_yyyymmdd.xml

**Folder Commodities:**

- OptiqMDG\_Production\_DerivativesStandingDataFile\_Commodities\_yyyymmdd.xml
- OptiqMDG\_Production\_CashTickSizeReferentialFile\_Commodities\_yyyymmdd.xml
- OptiqMDG\_Production\_OpenInterestFile\_Commodities\_yyyymmdd.xml
- OptiqMDG\_Production\_DerivativesTickSizeFile\_Commodities\_yyyymmdd.xml
- OptiqMDG\_Production\_ReferenceSpreadsFile\_Commodities\_yyyymmdd.xml
- OptiqMDG\_Production\_TimeTableFile\_Commodities\_yyyymmdd.xml

**Folder IndexDerivatives:**

- OptiqMDG\_Production\_DerivativesStandingDataFile\_IndexDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_CashTickSizeReferentialFile\_IndexDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_OpenInterestFile\_IndexDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_DerivativesTickSizeFile\_IndexDerivatives\_yyyymmdd.xml
- OptiqMDG\_Production\_ReferenceSpreadsFile\_IndexDerivatives\_yyyymmdd.xml
- IndexDerivatives/Current/UTPDerivatives\_Production\_TotalReturnFuturesConversionParameters\_IndexDerivatives\_SOD\_yyyymmdd.xml

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## 2. CONTACTS

Find below the contact details of Euronext's teams:

TEAM	CONTACT DETAILS
<p><b>Operational Client Services Desk</b></p> <p>Members' first point of contact for the Data Centre migration.</p> <p>Technical &amp; functional assistance with the development and testing on Optiq.</p> <p>Assistance with the use of the Production, EUA and Disaster Recovery environment, timeline and customer readiness checklist.</p>	<p><b>Tel:</b></p> <ul style="list-style-type: none"><li>■ Belgium +32 2 620 0585</li><li>■ France +33 1 8514 8585</li><li>■ Ireland +353 1 617 4289</li><li>■ Netherlands +31 20 721 9585</li><li>■ Norway +31 20 721 9585</li><li>■ Portugal +351 2 1060 8585</li><li>■ UK +44 20 7660 8585</li></ul> <p><b>Email:</b></p> <ul style="list-style-type: none"><li>■ <a href="mailto:DCmigration@euronext.com">DCmigration@euronext.com</a></li></ul>