

Optiq

UPDATE | 05 | NOVEMBER 2016

Editorial note

Euronext announced the launch of its new generation technology programme in May 2016, which will deliver improved customer experience through the migration from its current technology platform Euronext UTP to its new leading edge platform: **Optiq**.

This monthly newsletter will be sent to provide key updates and information on the progress of the programme, communicate important programme announcements, showcase new functionalities delivered by the new platform, and provide updates on the migration timeline and key milestone status.

This month, the **New Features Spotlight** will focus on Euronext's implementation of the **LZ4 data compression methodology** on the Market Data Gateway feed, which will be used on low bandwidth connections (100Mbps) and for all snapshot recovery messages.

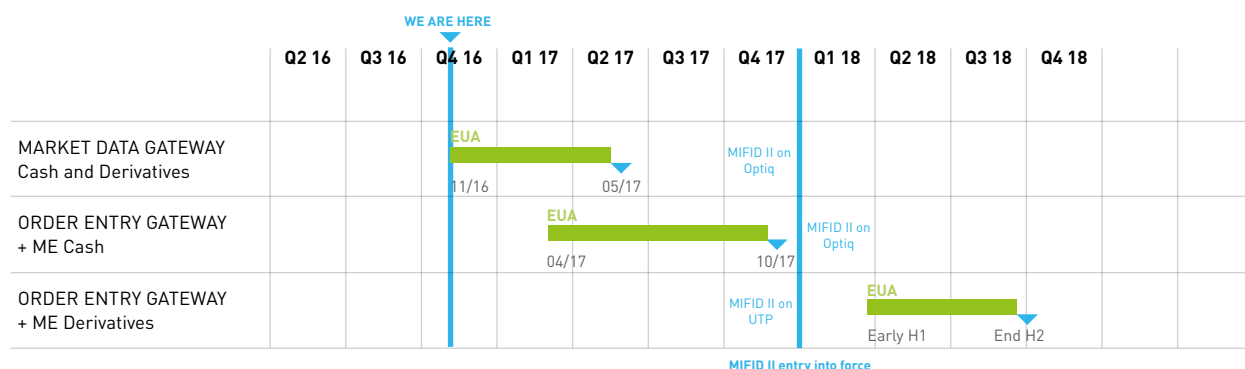
An update of recent announcements will also be provided, such as the notification of **important SFTI network connectivity order form deadlines**, as well as the confirmation of the **Virtual External User Acceptance platform opening date**.

Additional details are also provided regarding the EUA environments that have been put in place for clients during the Optiq migration, to help facilitate client testing and development

Keep reading for details on these important announcements, as well as an overview of current and future program milestones.

Timeline and milestone status

Migration approach: The market data infrastructure will be migrated first, followed by the migration of cash to the new Order Entry Gateway (OEG) and Matching Engine (ME) modules, which include all mandatory MiFID II requirements. The first two phases of the migration are planned for 2017 followed by the derivatives order entry and Matching Engine migration in 2018.



Milestones: (recent past + next 30 days)

October 2016:	Phase 2: Cash Order Entry Gateway (OEG) specifications release
November 2016:	Virtual EUA (V-EUA) Order Entry Configuration made available
	Virtual EUA (V-EUA) XDP Cash and Derivatives Feed Configuration made available
	Phase 1: MDG Detailed Migration Guidelines available
	Phase 1: MDG conformance test script publication
	SFTI order form deadline communicated for Optiq MDG production provisioning
	Phase 1: MDG Connectivity form availability for V-EUA MDG
	Phase 1: MDG V-EUA configuration details available in XML format
	Market Data Gateway V-EUA technical platform opening (Cash and Derivatives) for connectivity testing
	Technical Note #2 publication
December 2016:	Phase 1: Information to be communicated on the EUA release schedule and bundle details
	Phase 1: Updated MDG specifications, for a full alignment with 1st functional bundle release, followed by a subsequent update in Q1 2017
	Q4 Optiq information sessions in Paris, Amsterdam, Brussels and London, with client IT and project management teams
	Phase 1: Developer Guidelines publication
January 2017:	Phase 2: updated specification release in Q1 2017

Migration strategy

We are pleased to communicate some important elements of the Optiq migration strategy for the first phase of the project (Market Data Gateway, Cash and Derivatives).

Test Environment

The Virtual EUA environment opened on 29 November 2016 and connectivity testing is currently available via the MDG Start of Day (1101) message. Many of the functionalities to be delivered in Production will be available over the course of the next few weeks, made available for testing via regularly released bundles.

For any customers wishing to compare MDG V-EUA data to the XDP format, dedicated XDP V-EUA multicast channels have been created for this purpose. The configuration files are available on the Optiq documentation section of the Euronext website here:

- [Euronext Cash Market Data Feed Configuration XDP EUA](#)
- [Euronext Derivatives Market Data Feed Configuration XDP EUA](#)
- [Euronext Indices Market Data Feed Configuration XDP EUA](#)
- [Euronext SG SI Market Data Feed Configuration XDP EUA](#)

Clients will also have the ability to generate messages on the V-EUA MDG and XDP market data feeds, by connecting to dedicated Optiq order entry facilities (CCG's). In order to simplify access, the existing EUA order entry gateways (SLE's and ITM's) have been replicated and member trading authorizations will remain the same.

The configuration details for the MDG V-EUA environment are available in both [PDF](#) and [XML](#) format, and clients are encouraged to begin connectivity testing to ensure that all network configurations are working correctly and that multicast data is received on the appropriate channels and the FTP file services (all configuration details, IPs, Ports, Login and Password to MDG V-EUA File services are available on the welcome page of your MCA account). Clients must check with their network teams or connectivity providers that all required actions (including firewall checks) have been made to allow them to receive the multicast data.

Clients are strongly encouraged to perform testing in V-EUA, in order to be fully prepared to validate conformance testing which will begin late February 2017 on P-EUA. Conformance test guidelines will be published prior to the opening of the P-EUA, outlining all required steps, organization and testing timelines. Clients are strongly encouraged to perform testing in V-EUA, in order to be fully prepared to validate conformance testing.

Production Environment

Clients will be expected to participate in mandatory weekend testing on the production environment, which will take place on the following dates:

- Dress Rehearsal #1 on Saturday 8 April 2017 (Cash and Derivatives):
- Dress Rehearsal #2 on Saturday 15 April 2017 (Cash and Derivatives)
- Saturday go-live: (Cash) on Saturday 29 April 2017
- Saturday go-live: (Derivatives) on Saturday 20 May 2017

For more details, please refer to the [Phase 1: MDG Migration Guidelines](#) published early November 2016.

New features spotlight

October 2016:

Phase 1 Market Data Gateway Migration Guidelines

Optiq MDG will use LZ4 compression, and will be available for real-time market data used on low bandwidth connections (100Mbps) and for all snapshots. Only the body of the Market Data packets will be compressed, excluding the packet header. It should be noted that a compressed market data packet can contain several different messages, which are all compressed into a single compressed packet.

LZ4 was specifically chosen for the speed with which it is able to compress and decompress, and tests were performed to validate the implementation of LZ4 on Optiq MDG. Such tests included evaluating the three elements of compression:

1. Time needed to compress messages
2. The amount of compression possible in terms of message size
3. The speed with which messages can be decompressed

Our testing concluded that LZ4 was the compression methodology best suited for the Optiq MDG feed, as it allows for best in breed compression in all of the elements described above.

All clients implementing the new LZ4 compression for the first time should refer to the MDG client specifications, as well as the Optiq Technical Note #2.

What's next

To remain up-to-date with the migration, customers should:

1. Register dedicated Optiq contacts on the dedicated web [form](#)
2. Begin connectivity testing and complete the MDG V-EUA connectivity [form](#) by **15 December 2016**
3. Review the Phase 1 (MDG) Migration Guidelines published early November 2016
4. Return signed SFTI order forms for MDG production provisioning by **16 December 2016**
5. Continue review of the Phase 2 (Cash Order Entry Gateway) documentation
6. Contact the Optiq support desk with any questions

News

The Virtual External User Acceptance (V-EUA) platform opened on 29 November 2016.

The Phase 1, Market Data Gateway migration guidelines available since early November 2016. This document provides a detailed overview of the migration strategy and approach for Phase 1 of the Optiq programme (Euronext Cash and Derivatives Market Data Gateway), communicates major dates, migration milestones, testing details and validation requirements. **All clients implementing the new Market Data Gateway should carefully review this document.**

A new EUA connectivity form available on 29 November 2016, and clients should use it to confirm their network connectivity access to the MDG channels on the V-EUA environment by 15 December 2016.

The technical documentation for Phase 2 (Order Entry Gateway for Euronext Cash markets) is now available, and provides specific technical information and will allow clients to begin Phase 2 development and **should be reviewed carefully**. Updates will be provided in Q1 2017 to integrate missing information, and to take into account client feedback.

Customer focus

The migration onto the new Optiq platform has been designed with customers in mind. Technical relationship managers from the Euronext Client Readiness team will be available to meet with clients to review the technical specifications, facilitate impact assessment, hold development workshops, and provide regular updates on the migration timeline and status.

CONTACT DETAILS

For additional information, please reach out to your Optiq Programme client readiness team

Veronica Taylor

Tel: +44 (0) 20 7076 0931
vtaylor@euronext.com

Jack Cohecha

Tel: +33 (1) 70 48 25 40
jcohecha@euronext.com

Optiq Support Desk

Tel: +33 (1) 70 48 25 55
optiq@euronext.com

Previous editions

<https://www.euronext.com/en/optiq/documentation>

JULY

AUGUST

SEPTEMBER

OCTOBER



This publication is for information purposes only and is not a recommendation to engage in investment activities. This publication is provided "as is" without representation or warranty of any kind. Whilst all reasonable care has been taken to ensure the accuracy of the content, Euronext does not guarantee its accuracy or completeness. Euronext will not be held liable for any loss or damages of any nature ensuing from using, trusting or acting on information provided. No information set out or referred to in this publication shall form the basis of any contract. The creation of rights and obligations in respect of financial products that are traded on the exchanges operated by Euronext's subsidiaries shall depend solely on the applicable rules of the market operator. All proprietary rights and interest in or connected with this publication shall vest in Euronext. No part of it may be redistributed or reproduced in any form without the prior written permission of Euronext. Euronext refers to Euronext N.V. and its affiliates. Information regarding trademarks and intellectual property rights of Euronext is located at <https://www.euronext.com/terms-use>. © 2016, Euronext N.V. - All rights reserved.