# **Oslo Optiq<sup>®</sup> Technical User Group**

OSLO BØRS

### CONFORMANCE TESTING FOR THE OSLO OPTIQ MIGRATION

BØRSEN

SEPTEMBER 2020











Documentation Reminder Johnny Makarainen EMS Project Manager

Technical Documentation

Conformance Tests Johnny Makarainen EMS Project Manager Christian Ringstad Secondary Markets

- Timeline
- Conformance Chart
- Conformance tests

   (Functional Conformance > High Availability > MDG
   Validation > Front-to-back
   > Throttling > Saturn)

Dress Rehearsals Johnny Makarainen EMS Project Manager Q&A

- Dress Rehearsals
- Requirements



### **1. TECHNICAL DOCUMENTATION**

- 1. Project page: https://www.euronext.com/optiq
- 2. Register at connect 2:



- Register for Euronext Info Flash
- Technical documentation
- Register for Euronext Operational Notices & Info-Flash
- 3. Stay updated via DELTA Announcements:
- <u>https://www.oslobors.no/Oslo-Boers/Handel/Delta/Optiq</u>
- 4. Support
- Oslomigration@euronext.com



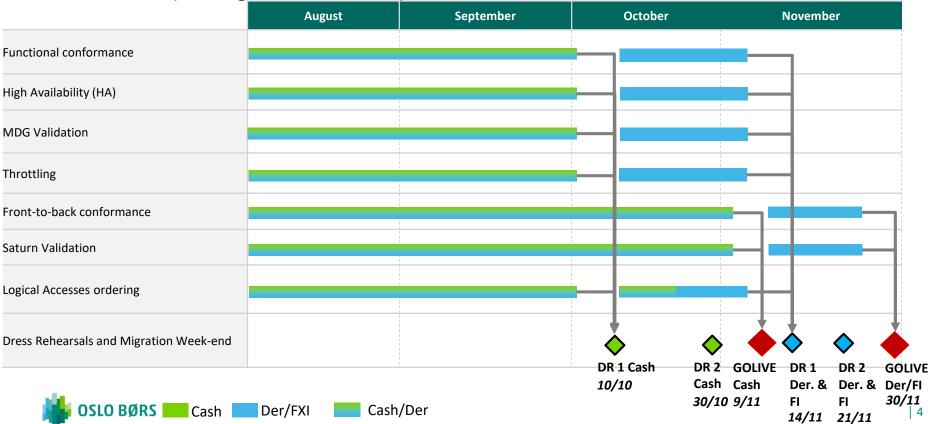
Customer portal

URONEXT



### **2.1 CONFORMANCE TIMELINE**

#### Main timeline (see Migration Guidelines)



### **2. 2 CONFORMANCE CHART**

		CASH	DERIVATIVES	FIXED INCOME	
To be booked with Euronext Team. Please contact <u>oslomigration@</u> <u>euronext.com</u>	Functional Conformance	APPLICABLE	APPLICABLE	APPLICABLE (Cash)	
	High Availability (HA)	APPLICABLE	APPLICABLE	APPLICABLE (Cash)	
	MDG Validation	APPLICABLE	APPLICABLE	APPLICABLE	
	Throttling	APPLICABLE	APPLICABLE	APPLICABLE (Cash)	
	Front to Back conformance	APPLICABLE	APPLICABLE	NOT APPLICABLE	
	Saturn Validation	APPLICABLE	APPLICABLE	APPLICABLE	

Example:

A Cash and Fixed Income client could do <u>one</u> Functional Conformance on SBE302.



### **2.3 FUNCTIONAL CONFORMANCE TEST**



#### What

- Order Entry test to ensure the trading application is well set-up and can send and receive message without negative impact on Trading chain.
- To be completed for all member codes and all solutions
- **SBE**: Conformance on Cash must use minimum SBE v300, Derivatives v217, and Fixed Income v302.
- Cash deadline: 1<sup>st</sup> Dress Rehearsal. Derivatives & Fixed Income deadline: 1<sup>st</sup> Dress Rehearsal

#### Approach

- Mandatory for Cash, Derivatives, & Fixed Income for new members (in-house and member using provider) and software vendors not yet conformed on Optiq (OEG and MDG):
  - New Providers/Member in-house = Full Conformance *approx. 90 min*
  - New members using provider = Light Conformance approx. 30 min
- Mandatory for member in-house and Software vendors already certified on Optiq:
  - Light Conformance approx. 15 min

Book conformance now with a Client Service Officer (oslomigration@euronext.com)



### 2. 3 HIGH AVAILABILITY



#### What

- The High Availability test is to make sure the order entry software is capable of handling an HA / failover event and the kinematics.
- To be completed for all trading solutions.
- The Conformance Certificate requires both completed Functional Conformance and High Availability.
- Cash: Deadline before the 1<sup>st</sup> Dress Rehearsal
- Derivatives & Fixed Income: Deadline before the 1st Dress Rehearsal

- Mandatory for Cash, Derivatives & Fixed Income new member in-house and software vendors not yet conformed on Optiq
- The High Availability test is different depending on Single-partition or Multi-partition Optiq Segment. If a client intends to trade on a Multi-partition segment (Equities, Equity Derivatives, Index Derivatives, etc), then they must perform the Multi-partition test .
- Test HA within allocated time slots provided by Euronext (see Migration Guidelines for schedule)
- Provide test results in webform on Connect (see appendix)



### 2.3 MDG VALIDATION



#### What

- The Market Data Gateway (MDG) Validation form validates that the member/provider understand and properly use the SBE template, various MDG messages, and concepts related to Market Data.
- Cash: Deadline one week before first Dress Rehearsal
- Derivatives & Fixed Income: Deadline one week before first Dress Rehearsal

- Mandatory for Cash, Derivatives & Fixed Income new member in-house, software vendors, and Data vendors not yet conformed on Optiq
- Mandatory for Trading members, Software providers, Data vendors already certified on Optiq (light version web form)
- Read documentation and test (follow High Availability schedule)
- Provide test results in webform on Connect (see appendix)



### 2.3 THROTTLING

4	Provider	Member in-house	Member using provider	Cash	
Throttling	Highly	Highly recommended	Highly	Derivatives	
Throtting	recommended		recommended	Fixed Income	

#### What

- This test is to ensure customers understand and can handle the Throttling mechanisms on Optiq. Customers can use either *Queuing* or *Rejection* in their logon message.
- Cash: Deadline before Go-live
- Derivatives & Fixed Income: Deadline before Go-live

- Throttling testing is a highly recommended tests for all new customers, especially new customers to Optiq.
- Clients can use the Throttling script to understand test cases (see appendix)
- Provide test results using a webform on Connect (see appendix)



### 2.3 FRONT-TO-BACK



#### What

- Front-to-back is a test aimed at confirming the that the mapping of fields and the associated configured values from Order Entry to posting in clearing accounts is correctly populated by the clients' trading facing systems, clearing members and back-offices.
- Cash: Deadline before Go-live
- Derivatives: Deadline before Go-live

- Mandatory for all trading members.
- Derivatives has a dedicated script and webform. For Cash there is only a webform.
- Once test is complete, submit the web form on Connect (see appendix)



### 2.3 SATURN



#### What

- The Saturn solution contains many features, such as OBOE, SLC Manager, APA, etc.
- SLC Manager is mandatory for all trading members

- Mandatory for Cash, Derivatives & Fixed Income new member in-house and software vendors not yet conformed on Optiq
- There is one web form per migration for all Saturn Features.
- Each feature requires a file upload that is "Checked & Ready" and clients need to provide a reference id for each case to be validated.



### **3.1 FOCUS ON DRESS REHEARSALS**

- Two Dress Rehearsals for the Cash migration: Saturday 10 October / 31 October;
- Two Dress Rehearsals for the Derivatives / Fixed Income migration: Saturday 14 November / 21 November;
- **Participation** in at least one Dress Rehearsal is mandatory for all Trading Members;
- Dress Rehearsal Guidelines to be provided the Monday before each Dress Rehearsal.

WHAT YOU CAN DO		WHAT YOU CANNOT DO
<ul> <li>Log on / Log off</li> </ul>		<ul> <li>Front-to-Back testing</li> </ul>
Inject orders	$\sim$	• Functional HA (TBC)
<ul> <li>Receive market data messages</li> </ul>		• Saturn (TBC)
<ul> <li>Purge the order book at the end of</li> </ul>		



the day

### **3. 2 DRESS REHEARSAL REQUIREMENTS**

**IMPORTANT:** Remember to have ordered <u>PRODUCTION</u> Market Data channels

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3 requirements to participate in a Dress Rehearsal:

- 1. Passed the functional conformance test (+ High Availability)
  - Booked and performed the <u>Functional Conformance</u> test and performed the <u>High Availability</u> test and submitted the HA webform => *Certificate*
- 2. Ordered Logical Access ID sessions for Production
  - Requested Logical Access IDs for PRODUCTION via <u>Connect portal</u> one week before each Dress Rehearsal.
- 3. Tested the connectivity to Production (Telnet)
  - Performed Telnet to the Production Order Entry Gateway ports (see document <u>Euronext</u> <u>Markets - OEG Connectivity Telnet Tests</u>)



## **ASK YOUR QUESTIONS**

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OB Secondary Market

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If there is not enough time to answer your questions, we will get back to you following the presentation. Thank you.

For any questions regarding the Oslo Migration, please contact
Oslomigration@euronext.com





### **APPENDIX**

Conformance Forms and Scripts





### **CONFORMANCE FORMS AND SCRIPTS**

	САЅН			DERIVATIVES		FIXED INCOME	
	Script	Form	Script	Form	Script	Form	
Functional conformance	<u>Script</u>	Form	<u>Script</u>	Form	(same as Cash)		
High availability	<u>Script</u>	Mono-Partition HA SBE Mono-Partition HA FIX Multi-Partition HA SBE Multi-Partition HA FIX	<u>Script</u>	Mono-Partition HA SBE Mono-Partition HA FIX Multi-Partition HA SBE Multi-Partition HA FIX	(same as Cash)		
MDG Validation	-	<u>New clients:</u> <u>Validation form</u> <u>Existing Euronext clients:</u> <u>Validation form</u>	-	<u>New clients:</u> <u>Validation form</u> <u>Existing Euronext clients:</u> <u>Validation form</u>	-	<u>Validation form</u>	
Throttling	<u>Script</u>	Validation form	<u>Script</u>	Validation form	(same as Cash)		
Front-to-back conformance	-	Validation form	<u>Script</u>	Validation form	N/A		
Saturn Validation	-	Validation form	-	Validation form	-	Validation form	

Scripts and links can also be found in the *Migration Guidelines* (IT Documentation page)



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# **THANK YOU!**





