



Cboe Australia Technology Migration Overview

May 10, 2022

Welcome & Strategic Overview

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Migration Focus

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Technical Specifications

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Questions & Answers

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Questions

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Presentation

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Technology migration planned for February 27, 2023*



Working with you to provide seamless technical and operational migration

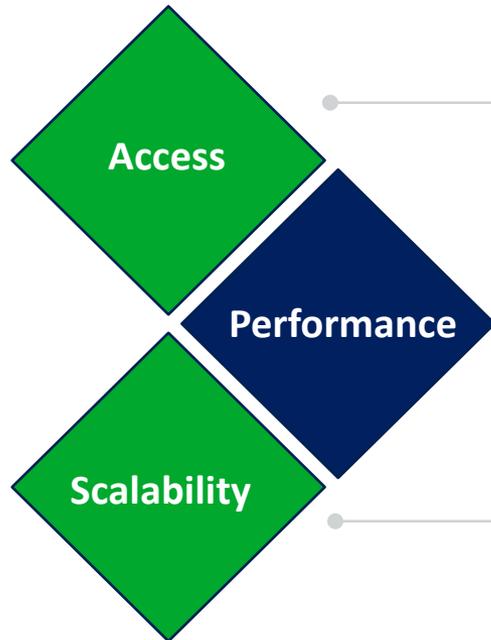
- Entering critical phase of preparations.
- Focus on connectivity, certification and testing requirements.
- Supporting documents and resources available on migration microsite – cxa.cboe.com.
- Our aim is to be collaborative and transparent.
- Engage with our team and share feedback.



Cboe Australia: a local market with global opportunities

- Cboe uniquely positioned among global exchange operators.
- Building one of the world's largest global derivatives and securities networks.
- Combining local market expertise with a global network to deliver best-in-class service with an expanded suite of products and innovative market solutions to customers.

Migration onto Cboe's leading-edge technology platform aims to make trading experience more efficient and user-friendly through one, unified platform



Technology will provide ability to trade Cboe's diverse, multi-asset product suite using a consistent order entry and market data protocol framework and a common toolset.

Migration onto Cboe's leading-edge technology expected to enable drastically lower latency and overall better performance through a much more resilient platform.

Robust and scalable technology will enable introduction of new trading functionality on an ongoing basis as we strive to expand the unique products and services offered to customers.

Key Migration Phases



Connectivity

Certification

Production

Portal provides efficient and seamless management of account privileges



- Tools to manage firm's settings, access data, and submit changes.
- During migration preparations, firms will be expected to use portal to order physical (cross connects) and logical (FIX and BOE) ports.
- Enables firms to retrieve invoices, create and maintain market-maker registrations, retrieve daily trade data and monthly trade detail reports, and submit order entry certification scripts.
- Offers order lookup capabilities, port dashboards, latency statistics, and trade reporting.
- In August, firms can establish individuals designated as firm administrators, begin to order certification logical sessions, and complete certification script.
- On October 24, daily production testing of test symbols in the new production environment begins.
- Cboe's implementation of FIX is based on the popular industry standard FIX 4.2 protocol, and BOE is Cboe's proprietary Binary Order Entry protocol.

Connections on Cboe technology will require new physical connectivity



Connectivity

- New trading CXA platform will be housed in the Equinix SY5 data centre for both production and certification.
- We will maintain Point of Presence for connectivity in Equinix SY2 data centre which will be latency equalized. Any participants in SY1 will also be latency equalized directly. Participants do not need to relocate to SY5.
- New physical connections to the latency equalized network are recommended. Existing connections will be supported but will incur additional latency due to an extra network hop.
- The secondary data centre will be hosted within the Global Switch data centre in Pymont; participants encouraged to connect to both data centres.
- Equinix to offer waiver for initial install fee and monthly recurring charges from 1 September 2022 through 27 February 2023.
- No additional Cboe connectivity fees prior to new platform activation for live production trading.

Firms required to certify for basic functionality, as well as order types and order modifiers they intend to use in production



Certification

- Once a firm has established physical connectivity to the SY5 data centre, free-of-charge certification order entry, market data, and drop sessions may be requested via the Logical Port Request form within customer web portal.
- Firms must specify desired changes to the default port settings.
- Legacy production and certification settings will not be applied; Cboe default settings can be found in the FIX and BOE specifications on microsite.
- Complete and submit certification script to order FIX, BOE and DROP production ports, and to input orders on new production system.
- On September 12, new certification environment available for testing.
- On October 24, new production environment for testing test symbols daily, Monday through Friday, available.
- No automatic transfer of certification sessions from legacy platform to new Cboe platform; existing sessions cannot be used to certify.

Six weekend tests scheduled in new production environment



- Test dates:
 - ✓ October 22
 - ✓ November 19
 - ✓ December 10
 - ✓ January 14
 - ✓ February 4
 - ✓ February 25
- January test will specifically provide for testing access and functionality of new DR platform within the Global Switch data centre.
- There will be no parallel period for full production trading operations.
- Logical sessions will be available for “telnet” connection level testing outside of normal trading.
- Planned migration date of February 27, 2023* is a hard cut-over and legacy platform will be shut off.

Cboe technology Multicast PITCH and TOP will be the standard depth and top of book protocols following migration

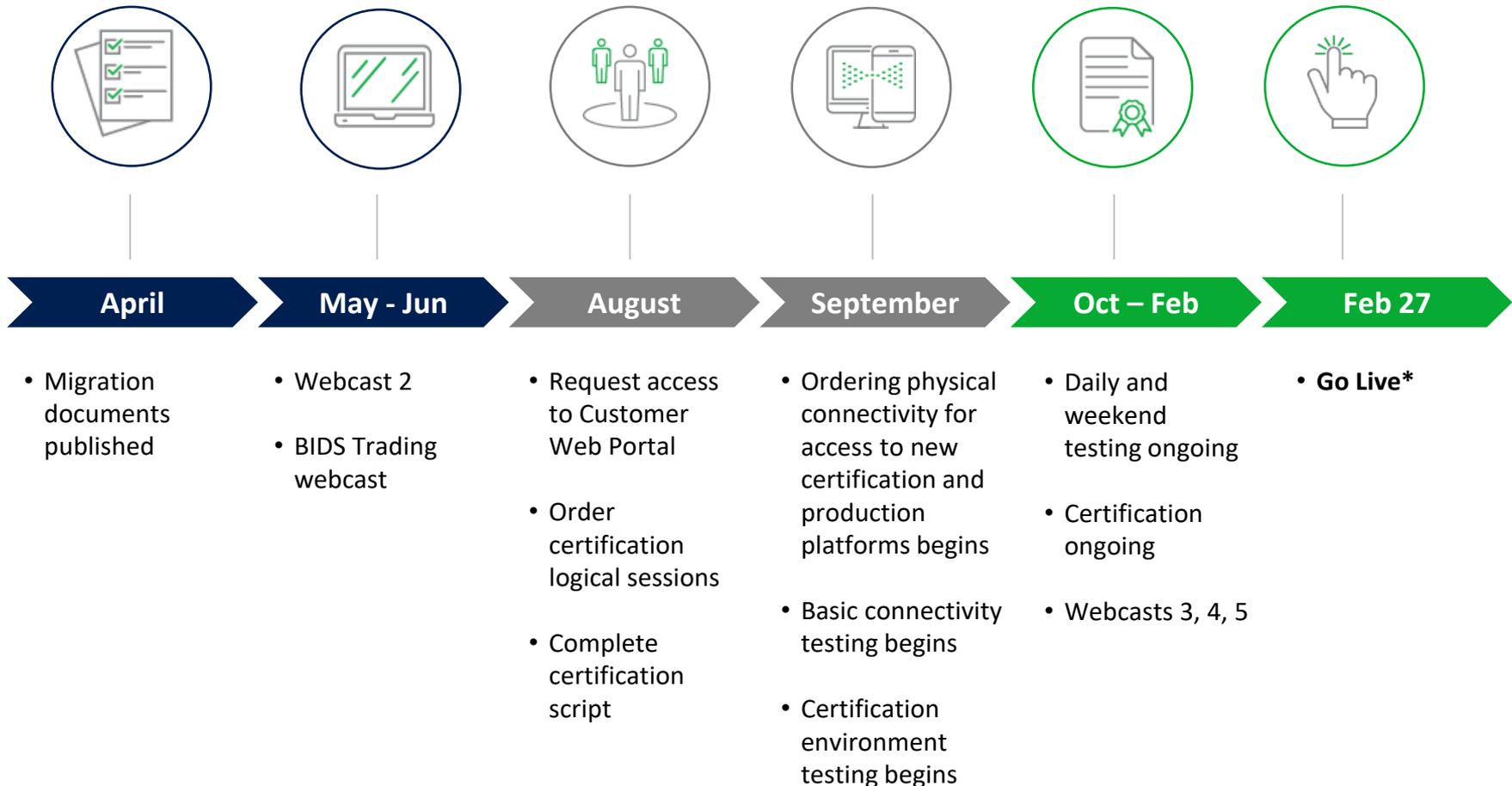


Multicast PITCH	Multicast TOP
Standard depth	Top of book
Real-time trading information direct from CXA.	Real-time top of book quotations direct from CXA (but less timely than PITCH).
Data provided includes symbol, depth of book quotations and execution information.	Quotations received provide aggregated size and do not indicate size or number of individual orders at best bid or ask.
Complete depth of book market data can be received.	Provides last trade price and size and cumulative volume data.

- Both Multicast PITCH and TOP feeds will be Gig-shaped and will be available from one or both of CXA’s data centres.
- Participants may choose to take one or more of these Multicast feeds depending on their location and connectivity to CXA.

Timeline and Key Dates

Technology migration planned for February 27, 2023*



* Pending regulatory review and approval

Resources to Guide Your Preparations



Microsite

- cxa.cboe.com
- Planned timeline and roadmap leading up to migration
- Key documents related to migration



Tech Specs

- Platform change matrix
- Connectivity manual
- Technical migration FAQ
- Customer web portal instructions
- Other documents



Webcasts

- Series of webcasts to support your preparations
- Presentation materials available on migration microsite

Customer Assistance



Technical Support Team

- au.migration@cboe.com
- +61 2 8078 1700
- Wiley (Peter Warton) is available for video/in-person meetings

Q&A

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