



## ***Cboe Options Exchanges to Introduce Higher Bandwidth PITCH Feeds and Sunset 1G PITCH Feeds***

Reference ID: C2024041503

### ***OVERVIEW***

**Applicable Cboe Exchanges:** BZX Options, C2 Options, EDGX Options

**Beginning May 20, 2024, through July 15, 2024,** Cboe BZX Options (BZX), C2 Options (C2), and EDGX Options (EDGX) Exchanges will make various PITCH depth of book market data enhancements to provide customers faster, more efficient real-time market data feeds.

### ***TECHNICAL DETAILS***

#### **Primary and Secondary 5G-shaped PITCH Feeds Available via 10G Connections**

**Effective May 20, 2024,** the two 5G-shaped PITCH depth of book feeds (C and D feeds) will be published on all available 10G customer access switches. Customers can choose which feed(s) to take on their 10G connections. Weekend testing of this change will be available to customers on **Saturday, May 18, 2024.**

#### **Sunset of 1G-shaped PITCH Feeds**

**Effective June 15, 2024,** due to increasing bandwidth requirements, the 1G-shaped PITCH depth of book feeds will be sunset, and customers consuming these feeds will be required to migrate to the existing 5G-shaped PITCH depth of book feeds. The 1G-shaped TOP, Complex, and Auction feeds are not impacted and will remain unchanged.

The 1G-shaped depth of book feed sourced from the secondary data center (E feed) will also be upgraded from a 1G to a 5G-shaped Options depth of book feed. Due to bandwidth limitations, any customer with a 1G physical connection to the secondary data center (DR) will no longer be able to consume any PITCH depth of book Options feeds.

On the same effective date, the two remaining 5G-shaped depth of book feeds will be re-named from “C” (primary) and “D” (secondary) to “A” (primary) and “B” (secondary) to match the configuration and naming of the 5G-shaped depth of book feeds on the Cboe Options Exchange (“C1”).

#### **Introduction of 8G-shaped PITCH Feed**

**Effective July 15, 2024,** customers currently consuming any PITCH depth of book feed can upgrade to the new C2, BZX, and EDGX Options 8G-shaped PITCH depth of book feeds (primary and secondary) by subscribing through the [Cboe Customer Web Portal](#). Similar to the C1 8G-shaped PITCH feed, ***the new 8G-shaped PITCH depth of book feeds will include a multicast IP address per matching unit.*** Please refer to [Cboe US Equities/Options Multicast PITCH Specification](#) for more information. The new 8G-shaped PITCH feeds will be available in the primary data center only and will not be offered in DR environments.

The final state will result in two 5G-shaped (A and B) PITCH depth of book feeds and two 8G-shaped (C and D) PITCH depth of book feeds per market. This will match the configuration and naming of feeds used on C1.

## IP Address Sunsetting

Effective June 15, 2024, the following IP addresses will be sunset:

Primary Datacenter	
BZX Options Gig-shaped [OA]	BZX Options Gig-shaped [OB]
Real-time MC	Real-time MC
224.0.131.0	233.130.124.0
224.0.131.1	233.130.124.1
224.0.131.2	233.130.124.2
224.0.131.3	233.130.124.3
224.0.131.4	233.130.124.4
224.0.131.5	233.130.124.5
224.0.131.6	233.130.124.6
224.0.131.7	233.130.124.7
224.0.131.8	233.130.124.8

Primary Datacenter	
C2 Options Gig-shaped [WA]	C2 Options Gig-shaped [WB]
Real-time MC	Real-time MC
224.0.131.176	233.130.124.176
224.0.131.177	233.130.124.177
224.0.131.178	233.130.124.178
224.0.131.179	233.130.124.179
224.0.131.180	233.130.124.180
224.0.131.181	233.130.124.181
224.0.131.182	233.130.124.182
224.0.131.183	233.130.124.183
224.0.131.184	233.130.124.184

Primary Datacenter	
EDGX Options Gig-shaped [EA]	EDGX Options Gig-shaped [EB]
Real-time MC	Real-time MC
224.0.131.64	233.130.124.64
224.0.131.65	233.130.124.65
224.0.131.66	233.130.124.66
224.0.131.67	233.130.124.67
224.0.131.68	233.130.124.68
224.0.131.69	233.130.124.69
224.0.131.70	233.130.124.70
224.0.131.71	233.130.124.71
224.0.131.72	233.130.124.72

## Feed Connectivity Requirements

To utilize the 5G or 8G-shaped PITCH feeds, customers must have a minimum of 10 Gbps of connectivity to Cboe via cross connect or dedicated circuit. Members with sufficient connectivity may choose to take both the A/B (5G) and C/D (8G) feeds from Cboe and arbitrate the feeds to recover lost data.

## ***SCHEDULED TIMELINE***

Please see the table below for a scheduled timeline of testing, availability, and sunset dates:

<b>Milestone</b>	<b>Target Date</b>
Production testing of 5G-shaped PITCH feeds on all customer access switches	05/18/24
Availability of 5G-shaped PITCH feeds on all customer access switches	05/20/24
Sunset of 1G-shaped PITCH feeds in primary data center	06/15/24
Upgrade of 1G-shaped "E" PITCH feeds to 5G-Shaping in secondary data center	
Production testing of 8G-shaped PITCH feeds available	06/29/24
Availability of new 8G-shaped PITCH feeds	07/15/24

## ***ADDITIONAL INFORMATION***

For more information, please refer to the following technical specifications:

- [Cboe US Equities/Options Multicast PITCH Specification](#)
- [US Equities/Options Connectivity Manual](#)

Please contact the Cboe Trade Desk or Cboe NOC for support or with any questions.

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