

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

The foregoing rule change has become effective pursuant to Section 19(b)(3)(A)(ii) of the Act.⁷

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is: (i) necessary or appropriate in the public interest; (ii) for the protection of investors; or (iii) otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the Commission shall institute proceedings to determine whether the proposed rule should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission's internet comment form (<https://www.sec.gov/rules/sro.shtml>); or
- Send an email to rule-comments@sec.gov. Please include file number SR-NASDAQ-2024-044 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549-1090. All submissions should refer to file number SR-NASDAQ-2024-044. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission's internet website (<https://www.sec.gov/rules/sro.shtml>). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission's Public Reference Room, 100 F Street NE,

Washington, DC 20549, on official business days between the hours of 10 a.m. and 3 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. Do not include personal identifiable information in submissions; you should submit only information that you wish to make available publicly. We may redact in part or withhold entirely from publication submitted material that is obscene or subject to copyright protection. All submissions should refer to file number SR-NASDAQ-2024-044 and should be submitted on or before September 11, 2024.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.⁸

Sherry R. Haywood,

Assistant Secretary.

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SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-100732; File No. SR-SAPPHIRE-2024-07]

Self-Regulatory Organizations; MIAx Sapphire, LLC; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Describe the Access Methods to the Exchange's Testing Systems Environment and Discontinue One Access Method

August 15, 2024.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 ("Act"),¹ and Rule 19b-4 thereunder,² notice is hereby given that on August 5, 2024, MIAx Sapphire, LLC ("MIAx Sapphire" or "Exchange") filed with the Securities and Exchange Commission ("Commission") a proposed rule change as described in Items I and II below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization's Statement of the Terms of Substance of the Proposed Rule Change

The Exchange is filing a proposal to describe the three methods to access the Exchange's optional testing systems environment and the timeline and process by which one of the three access methods would be discontinued. The text of the proposed rule change is

available on the Exchange's website at <https://www.miaxglobal.com/markets/us-options/all-options-exchanges/rule-filings>, at MIAx Sapphire's principal office, and at the Commission's Public Reference Room.

II. Self-Regulatory Organization's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization's Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

On July 15, 2024, the Securities and Exchange Commission ("Commission") approved the Exchange's Form 1 application to register as a national securities exchange under Section 6 of the Exchange Act.³ As previously announced, the Exchange anticipates that it will begin electronic operations on August 12, 2024.⁴

In anticipation of the launch of electronic equity options trading, the Exchange submits this filing to describe the three methods to access the Exchange's optional testing systems environment and the timeline and process by which the 1 Gigabit ("Gb") or 10Gb ultra-low latency ("ULL") connection access method described below would be discontinued.

The testing systems environment is a virtual trading system environment for Members⁵ and non-Members to test (i) upcoming Exchange software and code releases, (ii) product enhancements, and (iii) firm-developed software, prior to

³ See Securities Exchange Act Release No. 100539 (July 15, 2024) (File No. 10-240) (In the Matter of the Application of MIAx Sapphire, LLC for Registration as a National Securities Exchange) (the "Approval Order").

⁴ See MIAx Sapphire Options Alert, dated March 6, 2024, available at <https://www.miaxglobal.com/alert/2024/03/06/miax-sapphire-options-exchange-rescheduled-launch-date-august-12-2024>.

⁵ The term "Member" means an individual or organization that is registered with the Exchange pursuant to Chapter II of the Exchange's Rules for purposes of trading on the Exchange as an "Electronic Exchange Member" or "Market Maker." Members are deemed "members" under the Exchange Act. See Exchange Rule 100.

⁸ 17 CFR 200.30-3(a)(12).

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.

⁷ 15 U.S.C. 78s(b)(3)(A)(ii).

implementation in the Exchange's production (e.g., live trading) environment. Further, the testing systems environment allows unlimited testing of existing functionality, such as order types, order entry, order management, order throughput, acknowledgements, risk settings, mass cancellations, and purge requests. The testing systems environment is built to closely approximate the production environment (once live trading begins) to enable users the ability to test their systems and mimics the real life trading environment.⁶

There are three methods by which Members and non-Members may access the Exchange's testing systems environment. One, Members and non-Members may access the Exchange's testing systems environment via a virtual private network ("VPN") that operates over the internet and provides site-to-site access. VPN access is provided for free to all Members and non-Members. Two, Members and non-Members may also access the testing systems environment via a dedicated cross connection that is available as either a 1Gb or 10Gb ULL connection.⁷ Firms that utilize a VPN or dedicated cross connection to access the testing systems environment of the Exchange are also able to access the testing systems environments of each of the Exchange's affiliated options markets—Miami International Securities Exchange, LLC ("MIAX"), MIAX PEARL, LLC⁸ ("MIAX Pearl Options"),

⁶ Business continuity and disaster recovery testing is performed separately and not within the testing systems environment that is the subject of this filing.

⁷ The Exchange notes that other exchange families offer a similar dedicated connection to their testing environment for their members and non-members. See, e.g., Nasdaq Options Test Facility (NTF) Abstract, Version 1.4.4 (March 2024), available at https://www.nasdaq.com/Nasdaq_Test_Facility_NTF_Guide (last visited July 16, 2024) ("... the Nasdaq Test Facility . . . where market participants can test their trading applications with the INET trading system. The NTF environment allows members to test sending and executing quotes and orders offered by our six options exchanges . . ."); see also Securities Exchange Act Release No. 100442 (June 27, 2024), 89 FR 55296 (July 3, 2024) (SR-CboeBZX-2024-058) ("... the Exchange also offers corresponding ports which provide Members and non-Members access to the Exchange's certification environment to test proprietary systems and applications . . . The certification environment facilitates testing using replicas of the Exchange's production environment process configurations which provide for a robust and realistic testing experience . . .").

⁸ All references to "MIAX PEARL" in this filing are to the options trading facility of MIAX PEARL, LLC, referred to herein as "MIAX Pearl Options." Firms that choose to utilize the testing systems environment of MIAX Pearl Equities, the equities trading facility of MIAX PEARL, LLC, must utilize a separate dedicated cross connect as MIAX Pearl Equities' testing systems environment operates on

and MIAX Emerald, LLC ("MIAX Emerald"). The dedicated cross connect to the testing systems environment does not provide access to any of the production environments (i.e., live trading) of the Exchange or its affiliates, or allow the receipt of proprietary real-time market data for which each Member or non-Member may subscribe.

Three, access is also provided through the production connections for each 1Gb⁹ or 10Gb ULL connection for the applicable fee for such connection and no additional charge.¹⁰ Unlike a dedicated cross connection to the testing systems environment described above, these 1Gb and 10Gb ULL connections provide access to the Exchange's production environment (i.e., live trading) and allow the receipt of proprietary real-time market data. Also, unlike VPN, 1Gb, and the dedicated cross connection access described above, the 10Gb ULL connections only provide access the Exchange's testing systems environment and not those of its affiliated options markets. This is because of the nature of those connections, which are utilized to access the Exchange only, not just for testing, but for other Exchange specific items, such as access the Exchange's production environment and for the receipt of proprietary Exchange market data.

Firms that access the testing systems environment through any one of the three available access methods receive functionally the same testing experience. Each firm is free to decide how to access the testing systems environment based on their own needs and trading architecture. Again, use of the testing systems environment is entirely optional and no firm is required by rule or regulation to make use of the testing systems environment.¹¹ Regardless of access method, all firms are provided the same testing systems

a separate network from the affiliated options markets.

⁹ Like VPN access, the 1Gb connection will allow firms to reach all testing systems environments of the Exchange's affiliates, upon launch of the Exchange.

¹⁰ As noted above, the Exchange has not begun live trading at the time of this filing; however, the Exchange anticipates filing a separate rule filing with the Commission to establish fees for connectivity to the production environment ahead of the commencement of live trading. Such fees may also be waived for a period of time, which will be stated in the respective filing. See, e.g., *infra* note 12.

¹¹ Access to the Exchange's testing systems environment was provided to firms prior to the Exchange's Form 1 application being approved. During that time, fourteen firms accessed the testing systems environment via the dedicated cross connections and five firms accessed the testing systems environment via a VPN.

environment experience and are able to perform all of the same functions.

The Exchange will phase out the ability to connect to the testing systems environment via the existing 1Gb and 10Gb ULL production connections over the next 6 to 12 months. The Exchange will issue an alert notifying market participants of the anticipated timeline by which it will phase out access to the testing systems environment via 1Gb and 10Gb ULL production connections. During this phase out period, firms that use a 1Gb or 10Gb ULL production connection to access the testing systems environment would continue to be able to do so. At the end of this period, Members and non-Members that currently elect to access the Exchange's testing systems environment via a 1Gb or 10Gb ULL connection that seek to continue to access the Exchange's testing systems environment would be required to transfer their access to one of the two remaining access methods, a VPN for free or by subscribing to a dedicated cross connection for an amount that is expected to be less than the current fee for a 1Gb or 10Gb ULL production connection.¹²

2. Statutory Basis

The Exchange believes the proposed change is consistent with the requirements of Section 6(b) of the Act,¹³ in general, and Section 6(b)(5),¹⁴ in particular, because it is designed to prevent fraudulent and manipulative acts and practices, promote just and equitable principles of trade, foster cooperation and coordination with persons engaged in regulating, clearing, settling, processing information with respect to, and facilitating transactions in securities, and remove impediments to and perfect the mechanism of a free and open market and a national market system.

This filing simply describes the three methods to access the Exchange's optional testing systems environment and the timeline and process by which one of the three access methods would be discontinued. Access to the Exchange's testing systems environment

¹² The Exchange will submit a separate proposed rule change for immediate effectiveness pursuant to Section 19(b)(3)(A) of the Act (15 U.S.C. 78s(b)(3)(A)) and Rule 19b-4(f)(2) (17 CFR 240.19b-4(f)(2)) thereunder to establish a fee for the dedicated cross connect to the testing systems environment. The Exchange anticipates to waive such proposed fee for a period of time and that any potential fees at the end of the waiver prior to be less than the anticipated fees for a 1Gb and 10Gb ULL connection to the production environment.

¹³ 15 U.S.C. 78f(b).

¹⁴ 15 U.S.C. 78f(b)(5).

is completely voluntary.¹⁵ The testing systems environment is a useful tool for Members and non-Members to test (i) upcoming Exchange software and code releases, (ii) product enhancements, and (iii) firm-developed software, prior to implementation in the Exchange's production environment. In addition, the testing systems environment allows unlimited firm-level testing of order types, order entry, order management, order throughput, acknowledgements, risk settings, mass cancelations, and purge requests.

There is no functional difference between access alternatives. It is simply a technical decision of each firm regarding how to access the testing systems environment. The testing systems environment, whether accessed via the proposed dedicated connection or otherwise, provides firms the same scope of abilities to test their systems and software in the Exchange's testing systems environment, which replicates the Exchange's anticipated production trading environment. The testing systems environment serves to improve live trading on the Exchange and the national market system by permitting Members and non-Members the ability to accurately test software and code changes prior to implementing them in their systems in the live trading environment. This should, in turn, reduce the likelihood of a potentially disruptive issues in the live trading environment, which has the potential to affect all market participants.

The Exchange is not proposing new functionality. This filing simply describes the means of access to the Exchange's testing systems environment and the process by which one of those access methods would be discontinued. Doing so provides clarity to market participants and seeks to avoid potential investor confusion. Therefore, for the above reasons, the Exchange believes the proposed rule change is consistent with the Act.

B. Self-Regulatory Organization's Statement on Burden on Competition

The Exchange does not believe that the proposed rule change will result in any burden on competition that is not necessary or appropriate in furtherance of the purposes of the Act. There would be no competitive advantage for firms that access the testing systems environment via one access method versus another. All modes of access allow firms to perform the same testing

functions in the same manner. As such, the Exchange does not believe that the proposed change will impose any burden on intermarket competition not necessary or appropriate in furtherance of the purposes of the Act.

The Exchange believes the proposed rule change may have a positive impact on or intramarket competition. Among other things, the proposed rule change is intended to keep pace with technological changes in the industry and evolving customer needs and demands, and believes the dedicated connection to the testing systems environment will contribute to robust competition among national securities exchanges. As noted above, several exchanges already offer similar testing environments to their members and non-members.¹⁶ As a result, the Exchange believes this proposed rule change permits fair competition among national securities exchanges.

C. Self-Regulatory Organization's Statement on Comments on the Proposed Rule Change Received From Members, Participants, or Others

Written comments were neither solicited nor received.

III. Date of Effectiveness of the Proposed Rule Change and Timing for Commission Action

Because the foregoing proposed rule change does not: (i) significantly affect the protection of investors or the public interest; (ii) impose any significant burden on competition; and (iii) become operative for 30 days from the date on which it was filed, or such shorter time as the Commission may designate, if consistent with the protection of investors and the public interest, the proposed rule change has become effective pursuant to Section 19(b)(3)(A)(iii) of the Act¹⁷ and Rule 19b-4(f)(6) thereunder.¹⁸

At any time within 60 days of the filing of the proposed rule change, the Commission summarily may temporarily suspend such rule change if it appears to the Commission that such action is necessary or appropriate in the public interest, for the protection of investors, or otherwise in furtherance of the purposes of the Act. If the Commission takes such action, the

¹⁶ See *supra* note 7.

¹⁷ 15 U.S.C. 78s(b)(3)(A)(iii).

¹⁸ 17 CFR 240.19b-4(f)(6). In addition, Rule 19b-4(f)(6) requires a self-regulatory organization to give the Commission written notice of its intent to file the proposed rule change, along with a brief description and text of the proposed rule change, at least five business days prior to the date of filing of the proposed rule change, or such shorter time as designated by the Commission. The Exchange has satisfied this requirement.

Commission shall institute proceedings under Section 19(b)(2)(B)¹⁹ of the Act to determine whether the proposed rule change should be approved or disapproved.

IV. Solicitation of Comments

Interested persons are invited to submit written data, views and arguments concerning the foregoing, including whether the proposed rule change is consistent with the Act. Comments may be submitted by any of the following methods:

Electronic Comments

- Use the Commission's internet comment form (<https://www.sec.gov/rules/sro.shtml>); or
- Send an email to rule-comments@sec.gov. Please include file number SR-SAPPHIRE-2024-07 on the subject line.

Paper Comments

- Send paper comments in triplicate to Secretary, Securities and Exchange Commission, 100 F Street NE, Washington, DC 20549-1090.
- All submissions should refer to file number SR-SAPPHIRE-2024-07. This file number should be included on the subject line if email is used. To help the Commission process and review your comments more efficiently, please use only one method. The Commission will post all comments on the Commission's internet website (<https://www.sec.gov/rules/sro.shtml>). Copies of the submission, all subsequent amendments, all written statements with respect to the proposed rule change that are filed with the Commission, and all written communications relating to the proposed rule change between the Commission and any person, other than those that may be withheld from the public in accordance with the provisions of 5 U.S.C. 552, will be available for website viewing and printing in the Commission's Public Reference Room, 100 F Street NE, Washington, DC 20549, on official business days between the hours of 10 a.m. and 3 p.m. Copies of the filing also will be available for inspection and copying at the principal office of the Exchange. Do not include personal identifiable information in submissions; you should submit only information that you wish to make available publicly. We may redact in part or withhold entirely from publication submitted material that is obscene or subject to copyright protection. All submissions should refer to file number SR-SAPPHIRE-2024-07 and should be

¹⁹ 15 U.S.C. 78s(b)(2)(B).

¹⁵ As noted above, business continuity and disaster recovery testing is performed separately and not within the testing systems environment that is the subject of this filing.

submitted on or before September 11, 2024.

For the Commission, by the Division of Trading and Markets, pursuant to delegated authority.²⁰

Sherry R. Haywood,

Assistant Secretary.

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SECURITIES AND EXCHANGE COMMISSION

[Release No. 34-100736; File No. SR-CboeEDGA-2024-032]

Self-Regulatory Organizations; Cboe EDGA Exchange, Inc.; Notice of Filing and Immediate Effectiveness of a Proposed Rule Change To Amend Its Fees Schedule Regarding Dedicated Cores

August 15, 2024.

Pursuant to Section 19(b)(1) of the Securities Exchange Act of 1934 (the “Act”),¹ and Rule 19b-4 thereunder,² notice is hereby given that on August 1, 2024, Cboe EDGA Exchange, Inc. (the “Exchange” or “EDGA”) filed with the Securities and Exchange Commission (the “Commission”) the proposed rule change as described in Items I, II, and III below, which Items have been prepared by the Exchange. The Commission is publishing this notice to solicit comments on the proposed rule change from interested persons.

I. Self-Regulatory Organization’s Statement of the Terms of Substance of the Proposed Rule Change

Cboe EDGA Exchange, Inc. (the “Exchange” or “EDGA Equities”) proposes to amend its Fees Schedule. The text of the proposed rule change is provided in Exhibit 5.

The text of the proposed rule change is also available on the Exchange’s website (http://markets.cboe.com/us/equities/regulation/rule_filings/edga/), at the Exchange’s Office of the Secretary, and at the Commission’s Public Reference Room.

II. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

In its filing with the Commission, the Exchange included statements concerning the purpose of and basis for the proposed rule change and discussed any comments it received on the proposed rule change. The text of these

statements may be examined at the places specified in Item IV below. The Exchange has prepared summaries, set forth in sections A, B, and C below, of the most significant aspects of such statements.

A. Self-Regulatory Organization’s Statement of the Purpose of, and Statutory Basis for, the Proposed Rule Change

1. Purpose

The Exchange proposes to amend its fee schedule to adopt fees for Dedicated Cores.³

By way of background, the Exchange recently began to allow Users⁴ to assign a Single Binary Order Entry (“BOE”) logical order entry port⁵ to a single dedicated Central Processing Unit (CPU Core) (“Dedicated Core”). Historically, CPU Cores had been shared by logical order entry ports (*i.e.*, multiple logical ports from multiple firms may connect to a single CPU Core). Use of Dedicated Cores however, can provide reduced latency, enhanced throughput, and improved performance since a firm using a Dedicated Core is utilizing the full processing power of a CPU Core instead of sharing that power with other firms. This offering is completely voluntary and is available to all Users that wish to purchase Dedicated Cores. Users may utilize BOE logical order entry ports on shared CPU Cores, either in lieu of, or in addition to, their use of Dedicated Core(s). As such, Users are able to operate across a mix of shared and dedicated CPU Cores which the Exchange believes provides additional risk and capacity management. Further,

³ The Exchange initially introduced Dedicated Cores and corresponding pricing on March 1, 2024 (SR-CboeEDGA-2024-008). On March 20, 2024, the Exchange refilled the proposed fees (SR-CboeEDGA-2024-009). The Exchange amended the Dedicated Cores fees on April 1, 2024 (SR-CboeEDGA-2024-012). On April 12, 2024, the Exchange withdrew that filing and submitted SR-CboeEDGA-2024-014. On May 13, 2024, the Exchange withdrew SR-CboeEDGA-2024-009. On June 3, 2024, the Exchange also withdrew SR-CboeEDGA-014 and SR-CboeEDGA-2024-020. On August 1, the Exchange withdrew that filing and submitted this filing.

⁴ A User may be either a Member or Sponsored Participant. The term “Member” shall mean any registered broker or dealer that has been admitted to membership in the Exchange, limited liability company or other organization which is a registered broker or dealer pursuant to Section 15 of the Act, and which has been approved by the Exchange. A Sponsored Participant may be a Member or non-Member of the Exchange whose direct electronic access to the Exchange is authorized by a Sponsoring Member subject to certain conditions. See Exchange Rule 11.3.

⁵ Users may currently connect to the Exchange using a logical port available through an application programming interface (“API”), such as the Binary Order Entry (“BOE”) protocol. A BOE logical order entry port is used for order entry.

Dedicated Cores are not required nor necessary to participate on the Exchange and as such Users may opt not to use Dedicated Cores at all.

The Exchange proposes to assess the following monthly fees for Users that wish to use Dedicated Cores and adopt a maximum limit. First, the Exchange proposes to provide up to two Dedicated Cores to all Users who wish to use Dedicated Cores, at no additional cost. For the use of more than two Dedicated Cores, the Exchange proposes to assess the following fees: \$650 per Dedicated Core for 3–10 Dedicated Cores; \$850 per Dedicated Core for 11–15 Dedicated Cores; and \$1,050 per Dedicated Core for 16 or more Dedicated Cores. The proposed fees are progressive and the Exchange proposes to include the following example in the Fees Schedule to provide clarity as to how the fees will be applied. Particularly, the Exchange will provide the following example: if a User were to purchase 11 Dedicated Cores, it will be charged a total of \$6,050 per month ($\$0 * 2 + \$650 * 8 + \$850 * 1$). The Exchange also proposes to make clear in the Fees Schedule that the monthly fees are assessed and applied in their entirety and are not prorated. The Exchange notes the current standard fees assessed for BOE Logical Ports, whether used with Dedicated or shared CPU cores, will remain applicable and unchanged.⁶

Since the Exchange currently has finite amount of physical space in its data centers in which its servers (and therefore corresponding CPU Cores) are located, the Exchange also proposes to prescribe a maximum limit on the number of Dedicated Cores that Users may purchase each month. The purpose of establishing these limits is to manage the allotment of Dedicated Cores in a fair manner and to prevent the Exchange from being required to expend large amounts of resources in order to provide an unlimited number of Dedicated Cores. The Exchange previously established a limit for Members of a maximum number of 60 Dedicated Cores and Sponsoring Members a limit of a maximum number of 25 Dedicated Cores for each of their Sponsored Access relationships.⁷ The Exchange has since been able to procure additional servers with CPU Cores and also has a better understanding of User demand relative to its available space and available Dedicated Cores since the current maximum was adopted two

⁶ The Exchange currently assesses \$550 per port per month. See Cboe EDGA Equities Fee Schedule.

⁷ See Securities Exchange Act Release No. 100300 (June 10, 2024) 89 FR 50653 (June 14, 2024) (SR-CboeEDGA-2024-020).

²⁰ 17 CFR 200.30-3(a)(12), (59).

¹ 15 U.S.C. 78s(b)(1).

² 17 CFR 240.19b-4.