



January 21, 2021

Via Federal Express

Ms. Jeanette Marshall
Securities and Exchange Commission
100 F Street, N.E.
Mail Stop 7010
Washington, DC 20549-0001

Re: ***Cboe EDGX Exchange, Inc.
Form 1 Amendment***

Dear Ms. Marshall:

On behalf of Cboe EDGX Exchange, Inc. (the “Exchange”), and in connection with the Cboe Form 1 that is on file with the Securities and Exchange Commission (“Commission”), enclosed please find one original and two copies of the Execution Page to Form 1 as well as the following exhibits¹:

- Exhibit F (updated to include the most recent, final versions of agreements circulated to Members and other Users of the Exchange)
- Exhibit M (updated to provide a list of firms currently approved as members or other users of the Exchange)

This amendment is filed in accordance with SEC Rule 6a-2 and is intended to replace Exhibits F & M currently on file with the Commission. Please do not hesitate to contact me if you have any questions or require anything further.

Sincerely,

A handwritten signature in cursive script that reads 'Kyle Murray'.

Kyle Murray
VP, Associate General Counsel
913-815-7121
Signature executed at 2:00pm on 01/21/21

Enclosures

¹ See Attachment for a comprehensive list of updates to Exhibits F & M

Attachment

Summary of changes made to Exhibit F:

- See Exhibit F Cover Sheet for additional details regarding changes to our Agreements

Summary of changes made to Exhibit M:

Membership Approval:

- Lampost Capital, L.C. was approved

Membership Termination:

- CMT Trading LLC was terminated

***Based upon relief from the Commission staff and difficulties arising from COVID-19, we are making this filing without notarization. This document has been signed electronically.**

Form 1 Page 1 Execution Page	U.S. SECURITIES AND EXCHANGE COMMISSION WASHINGTON, D.C. 20549 APPLICATION FOR, AND AMENDMENTS TO APPLICATION FOR, REGISTRATION AS A NATIONAL SECURITIES EXCHANGE OR EXEMPTION FROM REGISTRATION PURSUANT TO SECTION 5 OF THE EXCHANGE ACT	Date filed (MM/DD/YY) 01/21/21	OFFICIAL USE ONLY
<p>WARNING: Failure to keep this form current and to file accurate supplementary information on a timely basis, or the failure to keep accurate books and records or otherwise to comply with the provisions of law applying to the conduct of the applicant would violate the federal securities laws and may result in disciplinary, administrative or criminal action.</p>			
INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACTS MAY CONSTITUTE CRIMINAL VIOLATIONS			
<p><input type="checkbox"/> APPLICATION <input checked="" type="checkbox"/> AMENDMENT</p>			
<p>1. State the name of the applicant: <u>Cboe EDGX Exchange, Inc.</u></p>			
<p>2. Provide the applicant's primary street address (Do not use a P.O. Box): <u>400 South LaSalle Street</u> <u>Chicago, Illinois 60605</u></p>			
			
<p>3. Provide the applicant's mailing address (if different): <u>21000062</u></p>			
<p>4. Provide the business telephone and facsimile number: <u>(913) 815-7000</u> <u>(913) 815-7119</u> (Telephone) (Facsimile)</p>			
<p>5. Provide the name, title and telephone number of a contact employee: <u>Kyle Murray</u> <u>VP, Associate General Counsel, Cboe EDGX Exchange, Inc.</u> <u>(913) 815-7121</u> (Name) (Title) (Telephone Number)</p>			
<p>6. Provide the name and address of counsel for the applicant: <u>Pat Sexton</u> <u>400 S. LaSalle Street</u> <u>Chicago, IL 60605</u></p>			
<p>7. Provide the date that applicant's fiscal year ends: <u>December 31</u></p>			
<p>8. Indicate legal status of the applicant: <input checked="" type="checkbox"/> Corporation <input type="checkbox"/> Sole Partnership <input type="checkbox"/> Partnership <input type="checkbox"/> Limited Liability Company <input type="checkbox"/> Other (specify): _____</p>			
<p>If other than a sole proprietor, indicate the date and place where applicant obtained its legal status (e.g. state where incorporated, place where partnership agreement was filed or where applicant entity was formed): (a) Date (MM/DD/YY): <u>11/01/07</u> (b) State/Country of formation: <u>Delaware/United States of America</u> (c) Statute under which applicant was organized: <u>General Corporation Law of the State of Delaware</u></p>			
<p>EXECUTION: The applicant consents that service of any civil action brought by, or notice of any proceeding before, the Securities and Exchange Commission in connection with the applicant's activities may be given by registered or certified mail or confirmed telegram to the applicant's contact employee at the main address, or mailing address if different, given in Items 2 and 3. The undersigned, being first duly sworn, deposes and says that he/she has executed this form on behalf of, and with the authority of, said applicant. The undersigned and applicant represent that the information and statement contained herein, including exhibits, schedules, or other documents attached hereto, and other information filed herewith, all of which are made a part hereof, are current, true and complete.</p>			
<p>Date: <u>01/21/21</u> <u>Cboe EDGX Exchange, Inc.</u> (MM/DD/YY) (Name of Applicant)</p>			
<p>By: <u>Kyle Murray</u> [signature executed at 2:00pm on 01/21/21] <u>Kyle Murray, VP, Associate General Counsel</u> (Signature) (Printed Name and Title)</p>			
<p>Subscribed and sworn before me this <u>see header</u> day of <u>see header</u>, <u>see header</u> by <u>see header</u> (Month) (Year) (Notary Public)</p>			
<p>My Commission expires <u>see header</u> County of <u>see header</u> State of <u>see header</u></p>			
<p>This page must always be completed in full with original, manual signature and notarization. Affix notary stamp or seal where applicable.</p>			

Exhibit F

Exhibit Request:

A complete set of all forms pertaining to:

1. Application for membership, participation or subscription to the entity,
2. Application for approval as a person associated with a member, participant or subscriber of the entity, and
3. Any other similar materials.

Response:

Attached please find the following documents which have recently been added or updated:

1. Membership Application, including Checklist and Statutory Disqualification Notice: *Updated email address to @cboe.com; updated website to www.cboe.com; removed requirement for signed and notarized Form BD; added a link to the Market Maker Registration Application in the 'Type of Organization' section; added additional exchanges to the 'Other Self-Regulatory Organization Memberships' section; added Account Administrators section; various other minor formatting changes*
2. Market Maker Registration Application: *Updated two email addresses: MembershipServices@bats to MembershipServices@cboe.com and Surveillance@bats.com to EquitySurveillance@cboe.com*
3. Retail Member Organization Application: *Updated email address to @cboe.com*
4. Direct Debit Opt-In Form: *Updated email address to @cboe.com*
5. Non-Member Clearing Firm Information Document: *Updated email address to @cboe.com*
6. Volume Aggregation and Volume Details Request: *Updated email address to @cboe.com*
7. Sponsored Access Application, including Checklist, Information Document, Sponsoring Member Consent and Sponsored Participant Agreement: *Updated email address to @cboe.com; re-ordered requirements listed on the Application Checklist (to align with the membership checklist); removed Port Selection section (requests are now made via the Cboe Customer Web Portal); added Account Administrator section; various other minor formatting changes*
8. Connectivity Services Agreement: *Updated link to U.S. Equities/Options and CFE Connectivity Manuals in Section 2.1.*
9. Options Member Application: *Updated email address to @cboe.com; updated website to www.cboe.com; updated link to 'Membership Application and Agreements'; added one additional exchange to the 'Other Self-Regulatory Organization Memberships' section and updated other exchange names, as applicable; various other minor formatting changes*
10. Options Market Maker Registration Application: *Updated email address to @cboe.com; minor formatting and grammar changes*
11. Registration of OCC Clearing Number(s) for Options Regulatory Fee (ORF) Billing Calculation – *Updated email address to MembershipServices@cboe.com; updated email address to (913) 815-7002; re-formatted 'OCC Clearing Number Designation' section to allow for more space for the signature block*

The Exchange intends to use Form U-4, the Uniform Application for Securities Industry Registration or Transfer, for persons applying to be associated persons of a Member.

Membership Application

In order to join Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc., and Cboe EDGX Exchange, Inc. (each, an “Exchange”), an applicant Broker-Dealer (“Applicant”) must complete and submit all materials listed on the Application Checklist below via email to MembershipServices@cboe.com.

Applicants are required to update any information submitted in this application when and if it becomes inaccurate or incomplete after submission.

APPLICATION CHECKLIST
<input type="checkbox"/> Membership Application, including Statutory Disqualification Notice
<input type="checkbox"/> Clearing Letter of Guarantee – per Exchange; applicable to non-clearing Applicants only
<input type="checkbox"/> User Agreement – per Exchange
<input type="checkbox"/> Securities Routing Agreement – per Exchange
<input type="checkbox"/> Most recent Form BD filing, if not available on WebCRD®
<input type="checkbox"/> A Form U-4 for each officer, director and equity holder who owns 5% or more of Applicant’s outstanding equity interests, if not available on WebCRD®
<input type="checkbox"/> Most recent audited annual financial statements, including Independent Auditors’ Report on Internal Control or Exemption Report, and unaudited financial statements as of the last month end
<input type="checkbox"/> All FOCUS Reports filed since the last annual audit
<input type="checkbox"/> Organizational Documents: Articles of Incorporation and Bylaws; Partnership Agreement; Limited Liability Company Agreement or Operating Agreement; or similar documentation
<input type="checkbox"/> IRS Form W-9 or W-8
<input type="checkbox"/> A list of all Authorized Traders, including name and CRD #, the Applicant will be registering with the Exchange
<input type="checkbox"/> A list identifying all joint accounts pursuant to Exchange Rule 12.7, if applicable

Note: All application materials sent to the Exchange will be reviewed for completeness. All applications are deemed confidential and are handled in a secure environment. Applications may, however, be shared with other self-regulatory organizations (e.g., FINRA), as necessary, to evaluate and process the application.

The Exchange may request applicants to submit documentation in addition to what is listed in the Application Checklist during the application review process, pursuant to Exchange Rule 2.6. If you have questions on completing the application, you may direct them to Membership Services at MembershipServices@cboe.com or 913.815.7002. In addition, please refer to the Exchange’s website at www.cboe.com for additional information regarding the membership process.

Membership Application

GENERAL INFORMATION		
Date:	CRD #:	
Name of Applicant:		
Address of Principal Office:		
City:	State:	Zip:
BILLING ADDRESS		
Address of Billing Office:		
City:	State:	Zip:
BUSINESS CONTACT	BILLING CONTACT	
Name:	Name:	
Title:	Title:	
CRD #:	CRD #:	
Email:	Email:	
Phone:	Phone:	
COMPLIANCE CONTACT	TECHNICAL CONTACT	
Name:	Name:	
Title:	Title:	
CRD #:	CRD #:	
Email:	Email:	
Phone:	Phone:	
TRADING CONTACT	SUPERVISOR OF AUTHORIZED TRADERS	
Name:	Name:	
Title:	Title:	
CRD #:	CRD #:	
Email:	Email:	
Phone:	Phone:	
TYPE OF ORGANIZATION		
<input type="checkbox"/> Corporation <input type="checkbox"/> Limited Liability Company <input type="checkbox"/> Partnership <input type="checkbox"/> Sole Proprietorship		
State of Organization: _____ Federal Employer ID Number: _____		
TYPE OF BUSINESS ACTIVITIES CONDUCTED BY APPLICANT (check all that apply)		
<input type="checkbox"/> Market Maker* <input type="checkbox"/> Public Customer Business <input type="checkbox"/> Clearing Services <input type="checkbox"/> Firm Proprietary Trading		
<input type="checkbox"/> Other: _____		
*If applying as a Market Maker on the Exchange, a Market Maker Registration Application is also required.		

OTHER SELF-REGULATORY ORGANIZATION MEMBERSHIPS (check all that apply)

- | | | |
|--|--|--|
| <input type="checkbox"/> BOX Exchange LLC | <input type="checkbox"/> Long-Term Stock Exchange, Inc. | <input type="checkbox"/> Nasdaq MRX, LLC |
| <input type="checkbox"/> Cboe BYX Exchange, Inc. | <input type="checkbox"/> MEMX, LLC | <input type="checkbox"/> Nasdaq PHLX LLC |
| <input type="checkbox"/> Cboe BZX Exchange, Inc. | <input type="checkbox"/> Miami International Securities Exchange | <input type="checkbox"/> The Nasdaq Stock Market |
| <input type="checkbox"/> Cboe C2 Exchange, Inc. | <input type="checkbox"/> MIAX Emerald, LLC | <input type="checkbox"/> New York Stock Exchange LLC |
| <input type="checkbox"/> Cboe EDGA Exchange, Inc. | <input type="checkbox"/> MIAX PEARL, LLC | <input type="checkbox"/> NYSE Arca, Inc. |
| <input type="checkbox"/> Cboe EDGX Exchange, Inc. | <input type="checkbox"/> Nasdaq BX, Inc. | <input type="checkbox"/> NYSE Chicago, Inc. |
| <input type="checkbox"/> Cboe Exchange, Inc. | <input type="checkbox"/> Nasdaq GEMX, LLC | <input type="checkbox"/> NYSE MKT LLC |
| <input type="checkbox"/> Financial Industry Regulatory Authority | <input type="checkbox"/> Nasdaq ISE, LLC | <input type="checkbox"/> NYSE National, Inc. |
| <input type="checkbox"/> Investors Exchange LLC | | |

Name of Applicant's Designated Examining Authority (DEA): _____

ADDITIONAL INFORMATION

State approximate dates of last inspection of Applicant's books and records by the SEC, FINRA or any other Regulator:

SEC: _____ FINRA: _____ Other: _____

Name Other Regulator, if applicable : _____

If any material deficiencies were revealed, please explain. Attach an additional sheet if more space is needed.

Discuss any recent events or changes that **are not** reflected in the Applicant's Form BD and U-4(s) (and amendments thereto) that are submitted with this Application. Attach an additional sheet if more space is needed.

During the past three years has Applicant been subject to the notification and reporting requirements under SEC Rule 17-a-11 because of a net capital or record keeping problem?

Yes No

If yes, please explain. Attach an additional sheet if more space is needed.

Does Applicant carry a Broker's Blanket and Fidelity Bond?

Yes No

If yes, please provide the following:

Name of insurance carrier: _____

Amount of coverage: _____

Effective date of bond: _____

AML COMPLIANCE OFFICER

Pursuant to Exchange Rule 5.6, each Member is required to designate, and identify to the Exchange, a person or persons responsible for implementing and monitoring the day-to-day operations and internal controls of the Member's anti-money laundering program. A Member must provide prompt notice to the Exchange regarding any change in this designation. If Applicant is a Member of FINRA required to comply with FINRA Rule 3310 (formerly NASD Rule 3011), notification of changes to this designation need not be filed with the Exchange if the Member complies with such FINRA Rule.

Name:	Title:	
Business Address:		
Phone:	Fax:	Email:

PRINCIPAL REGISTRATION

The Exchange requires each Member other than a sole proprietorship or a proprietary trading firm with 25 or fewer Authorized Traders ("Limited Size Proprietary Firm") to register at least two (2) Series 24 qualified Principals. A Limited Size Proprietary Firm is required to register at least one (1) Series 24 qualified Principal. A "Principal" is any individual responsible for supervising the activities of a Member's Authorized Traders and each person designated as a Chief Compliance Officer on Schedule A of Form BD. In addition, the Exchange requires each Member to register a Series 27 qualified FINOP with the Exchange. See Exchange Rule 2.5, Interpretation and Policy .01 for additional information regarding principal registration. Please indicate below the individuals that the Member intends to register with the Exchange, to comply with these requirements.

DESIGNATED SERIES 24 LICENSED PRINCIPAL

Name:	Title:	CRD #:
Business Address:		
Phone:	Email:	

DESIGNATED SERIES 24 LICENSED PRINCIPAL

Name:	Title:	CRD #:
Business Address:		
Phone:	Email:	

DESIGNATED SERIES 27 LICENSED PRINCIPAL

Name:	Title:	CRD #:
Business Address:		
Phone:	Email:	

ACCOUNT ADMINISTRATORS

A Member must designate an Account Administrator who will be authorized to grant permission and user access within the Cboe Customer Web Portal. More than one Account Administrator may be designated and there is not a maximum number of Account Administrators allowed per Member. Account Administrators will be able to grant access to tools within the Customer Web Portal including, but not limited to, historical market data subscriptions; logical port request, modify or delete form; physical connection request form and invoices and billing files.

Name:	Title:
Email:	Phone:

Name:	Title:
Email:	Phone:

The undersigned represents that the information and statements contained herein, including exhibits attached hereto, are current, true and complete.

By executing this Application, the undersigned agrees as follows:

- (1) To abide by, comply with, and adhere to the provisions of the Exchange's Certificate of Incorporation, its By-Laws, the Exchange Rules, the policies, interpretations and guidelines of the Exchange and all orders and decisions of the Exchange's Board of Directors and penalties imposed by the Board of Directors, and any duly authorized committee (such agreement is not to be construed as a waiver by the undersigned of any right to appeal provided in the Securities Exchange Act of 1934, as amended);
- (2) To pay such dues, fees, assessments, and other charges in the manner and amount as shall from time to time be fixed by the Exchange.
- (3) The Exchange and its officers, employees and members of its Board of Directors and of any Exchange committee shall not be liable, except for willful malfeasance, to the Applicant or to any other person, for any action taken by such director, officer, or member in his official capacity, or by any employee of the Exchange while acting within the scope of his employment, in connection with the administration or enforcement of any of the provisions of the Certificate of Incorporation, By-Laws, Exchange Rules, policies, interpretations or guidelines of the Exchange or any penalty imposed by the Exchange, its Board of Directors or any duly authorized committee;
- (4) In cases where the Applicant fails to prevail in a lawsuit or administrative adjudicative proceeding instituted by the Applicant against the Exchange or any of its officers, directors, committee members, employees or agents, to pay the Exchange or any of its officers, directors, committee members, employees or agents, all reasonable expenses, including attorneys' fees, incurred by the Exchange in the defense of such proceeding, but only in the event that such expenses exceed Fifty Thousand Dollars (\$50,000.00), provided that such payment obligation shall not apply to internal disciplinary actions by the Exchange or administrative appeals;
- (5) To maintain and make available to the Exchange, its authorized employees and its Board of Directors or committee members such books and records as may be required to be maintained by the Securities and Exchange Commission or Exchange Rules; and
- (6) To provide such other reasonable information with respect to the Applicant as the Exchange may require.

Applicant Broker-Dealer acknowledges its obligation to update any and all information contained in any part of this application, including termination of membership with another SRO, which may cause a change in the Applicant Broker-Dealer's DEA. It is understood that in that event, additional information may be required by the Exchange.

Signature of Authorized Officer, Partner, Managing
Member or Sole Proprietor

Date

Printed Name

Title

Statutory Disqualification Notice

Pursuant to the Securities Exchange Act of 1934, as amended (the "Act"), the Exchange may deny (or may condition) membership or may bar a natural person from becoming associated (or may condition an association) with a Member for the same reasons that the Securities and Exchange Commission may deny or revoke a broker-dealer registration under the Act. The Act provides for Statutory Disqualification if a person has:

- Been expelled, barred or suspended from membership in or being associated with a member of a self regulatory organization;
- Had broker, dealer or similar privileges denied or suspended or caused such denial or suspension of another;
- Violated any provision of the Act; or
- Been convicted of a theft or securities related misdemeanor or any felony within ten (10) years of the date of applying for membership status or becoming an Associated Person.

Check here if you **DO NOT** have person(s) associated with the Applicant Broker-Dealer who is or may be subject to Statutory Disqualification.

Check here if you **DO** have person(s) associated with the Applicant Broker-Dealer who is or may be subject to Statutory Disqualification.*

Please identify any such person(s) associated with the Applicant Broker-Dealer who is or may be subject to Statutory Disqualification. Additionally, identify any such person(s) who are associated with the Applicant Broker-Dealer and who have been approved for association or continued association by another SRO due to a Statutory Disqualification.

* Attach a sheet identifying any such person(s), including the following information:

1. Name and social security number of the person(s).
2. Copies of documents relating to the Statutory Disqualification.
3. Description of each such person's duties (for non-registered individuals, this should include a statement indicating if the position allows access to books, records, funds or securities).
4. Explanation of action taken or approval given by any other SRO regarding each person.

On behalf of Applicant Broker-Dealer, I hereby attest and affirm that I have read and understand the above and the attached information, and that the answers and the information provided (including copies of any documents) are true and complete to the best of my knowledge. I acknowledge that the Exchange shall rely on the information provided pursuant to this Notice in order to approve or deny Applicant Broker-Dealer's application for membership. I understand that Applicant Broker-Dealer will be subject to a disciplinary action if false or misleading answers are given pursuant to this Notice. I also acknowledge the obligation of Applicant Broker-Dealer to submit to the Exchange any amendment to any document submitted as part of its application, including but not limited to this Notice, within ten (10) business days of such amendment or change.

Signature of Authorized Officer, Partner, Managing
Member or Sole Proprietor

Date

Printed Name

Title

Market Maker Registration Application

Members applying to become Market Makers registered with Cboe BZX Exchange, Inc. (“BZX”), Cboe BYX Exchange, Inc. (“BYX”), Cboe EDGA Exchange, Inc. (“EDGA”) and Cboe EDGX Exchange, Inc. (“EDGX”) (each, an “Exchange”) are required to complete this Market Maker Registration Application. The Exchange may require additional information from any Applicant prior to determining whether to register such Applicant as a Market Maker.

To apply, please complete this Market Maker Registration Application and submit with all required supplementary materials via email to MembershipServices@cboe.com.

Applicants are required to update any information submitted in the application when and if it becomes inaccurate or incomplete after submission.

GENERAL INFORMATION		
Date:	CRD #:	
Name of Applicant:		
Address of Principal Office:		
City:	State:	Zip:
OTHER BUSINESS ACTIVITIES		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"> <input type="checkbox"/> Investment Banking <input type="checkbox"/> Market Maker </div> <div style="width: 30%;"> <input type="checkbox"/> Public Securities Business <input type="checkbox"/> Dealer/Specialist </div> <div style="width: 30%;"> <input type="checkbox"/> Proprietary Trading <input type="checkbox"/> Other: _____ </div> </div> <p style="margin-top: 10px;">If the Applicant is a Market Maker or Dealer/Specialist, please provide a list of the registered national securities exchange(s) or association(s) on which the Applicant has been approved as such:</p> 		
SECURITIES		
Estimate the number of securities in which the Applicant intends to become registered as a Market Maker: _____		
NET CAPITAL		
Excess Net Capital Amount: _____ As of Date: _____		
<input type="checkbox"/> Most recent FOCUS Report enclosed - required		

MARKET MAKER AUTHORIZED TRADERS

To be eligible for registration as a Market Maker Authorized Trader ("MMAT"), as defined in Exchange Rule 1.5(m), a person must successfully complete proficiency examinations and continuing education requirements applicable to Authorized Traders, as set forth in Interpretation and Policies .01 and .02 to Exchange Rule 2.5¹. Market Makers must maintain a current list of MMATs who are permitted to enter orders on behalf of the Market Maker pursuant to BZX and BYX Rule 11.8(a)(4), EDGA and EDGX Rule 11.20(a)(4).

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX BYX EDGA EDGX

Will this individual require a web log-in to facilitate symbol registration? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX BYX EDGA EDGX

Will this individual require a web log-in to facilitate symbol registration? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX BYX EDGA EDGX

Will this individual require a web log-in to facilitate symbol registration? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX BYX EDGA EDGX

Will this individual require a web log-in to facilitate symbol registration? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

¹ In exceptional cases and where good cause is shown, the Exchange may waive such requirement. Contact Membership Services at 913.815.7002 for more information regarding requesting a waiver of the proficiency exam requirement.

MARKET MAKER RESTRICTIONS

Restrictions apply to a Market Maker registered in a UTP Derivative Security that derives its value from any of the following: one or more currencies, commodities, derivatives based on one or more currencies or commodities, or a basket or index comprised of currencies or commodities (collectively, "Reference Assets"). BZX Rule 14.11(j)(5) and BYX, EDGA and EDGX Rule 14.1(c)(5) require a Market Maker registered in a UTP Derivative Security to file with the respective Exchange(s) and keep a current list identifying all accounts for trading Reference Assets or any derivative instruments based on a Reference Asset of that UTP Derivative Security, which the Applicant: (1) holds an interest; (2) has investment discretion; or (3) shares in the profits and/or losses.

If the applicant intends to become a registered Market Maker in a UTP Derivative Security, please submit a current list of accounts in which the underlying physical asset or commodity, related futures or options on futures, or any other related derivatives are traded to the Regulatory Department at EquitySurveillance@cboe.com.

WEBSITE DISCLOSURE AND DATA PROVIDED TO ISSUERS

Notwithstanding any provision to the contrary set forth in User Agreement by and between the Exchange and applicant (the "User Agreement") related to information or data that applicant or applicant's agent enters into Exchange ("Transaction Data"), applicant hereby grants to the Exchange a non-exclusive, non-assignable, non-transferable, worldwide, irrevocable license to receive and use Transaction Data solely within Exchange market data products that it offers exclusively to issuers relating to the market in the issuer's own securities even if such market data products present Transaction Data in a manner that provides applicant's volume ranking on the Exchange in such issuer's own securities. Further, applicant hereby agrees that Exchange can publicly identify applicant as a Market Maker on the Exchange. Finally, applicant agrees that Exchange can provide confidential information derived from Transaction Data solely to issuers relating to the market in an issuer's own securities and that such information may include applicant's identity.

The undersigned attests that the information provided in this application on behalf of the Applicant is complete and accurate. Furthermore, the undersigned acknowledges that the Applicant agrees to update the application as necessary, and to abide by all rules of the Exchange, and interpretations thereof, as they currently exist and as they may be added, supplemented and/or amended from time to time.

Signature of Authorized Officer, Partner, Managing Member or
Sole Proprietor

Printed Name

Title

Date

Cboe EDGX Exchange, Inc. Retail Member Organization Application

The completion of this application is required in order to be qualified by Cboe EDGX Exchange, Inc. (the “Exchange” or “EDGX”) as a Retail Member Organization (“RMO”) and submit Retail Orders.

A “Retail Order” is an agency order or riskless principal order that meets the criteria of FINRA Rule 5320.03 that originates from a natural person and is submitted to EDGX by an RMO, provided that no change is made to the terms of the order with respect to price or side of market and the order does not originate from a trading algorithm or any other computerized methodology. For purposes of this application, the term “natural person” refers to the origination of the order from a request made by a human as opposed to the generation of an order by a computer algorithm. An order from a natural person can include an order on behalf of an account held in a corporate legal form, such as an Individual Retirement Account, a Corporation, or a Limited Liability Corporation that has been established for the benefit of an individual or group of related family members, provided that the order originates from an individual.

If an RMO uses an algorithm to determine to send an existing Retail Order to the Exchange, such order is acceptable and is not deemed to have originated from a trading algorithm strictly as a result of the brokerage firm’s algorithm, provided that the RMO assures that the Retail Order meets the underlying rule requirements, including that the routing algorithm does not change the terms of the order with respect to price or side of the market. Additionally, the Retail Order provision preventing changes to the terms of the order (e.g., price or side) is not meant to prevent an RMO from ensuring a better execution experience for the retail customer, such as by adding a limit to a Retail Order.

See EDGX Rule 11.21 for a full definition of terms and requirements.

GENERAL INFORMATION		
Name of Applicant:	WebCRD #:	
Address of Principal Office:		
City:	State:	Zip:
MPID(s) used to submit Retail Orders:		
Members sending Retail Orders may elect that their display-eligible orders be included in the Exchange’s proprietary data feeds as Attributable Orders utilizing a generic “RTAL” designation on either an order-by-order basis or by establishing a port-level default. Please contact the Trade Desk at 913.815.7001 or TradeDesk@cboe.com if you will be requesting that a specific port be designated with the “RTAL” identifier.		
BUSINESS CONTACT		
Name:	Email:	
Title:	Phone:	
BUSINESS DESCRIPTION		
Please describe the current business structure of the division within your Firm that qualifies you as an RMO (attach an additional sheet if more space is needed):		

Please provide supporting documentation sufficient to demonstrate the retail nature and characteristics of your order flow. Examples of this supporting documentation may include sample marketing literature, website screenshots and other publicly disclosed materials describing the retail nature of your order flow, and such other documentation and information as the Exchange may require to obtain reasonable assurance that your order flow would meet the requirements of the Retail Order definition. Additionally, please provide a copy of your Written Supervisory Procedures (WSPs) related to the requirements set forth in EDGX Rule 11.21.

Applicant has attached supporting documentation, including WSPs (required)

RMO SUPERVISORY REQUIREMENTS

By executing this Application, the Applicant attests that substantially all orders submitted by the Applicant as Retail Orders would meet the qualifications for such orders under EDGX Rule 11.21. Applicant further attests that it has in place WSPs pursuant to Rule 11.21. Such WSPs require Applicant to:

- (i) exercise due diligence before entering a Retail Order to assure that entry as a Retail Order is in compliance with the requirements of this Rule, and
- (ii) monitor whether orders entered as Retail Orders meet the applicable requirements.

In addition, if Applicant does not itself conduct a retail business but routes Retail Orders on behalf of another broker-dealer, Applicant's WSPs must be reasonably designed to assure that the orders it receives from such other broker-dealer that are designated as Retail Orders meet the definition of a Retail Order. The Applicant must:

- (i) obtain an annual written representation from each other broker-dealer that sends the Applicant orders to be designated as Retail Orders that entry of such orders as Retail Orders will be in compliance with the requirements of this Rule (a form acceptable to the Exchange for such annual written representation is attached hereto); and
- (ii) monitor whether Retail Order flow routed on behalf of such other broker-dealers meets the applicable requirements.

Applicant

Signature of Authorized Officer, Partner, Managing
Member or Sole Proprietor

Date

Print Name

Title

Cboe EDGX Exchange, Inc.
Retail Member Organization – Broker-Dealer Customer Agreement

If you do not conduct a retail business but are routing retail order flow on behalf of one or more other broker-dealers, your firm is required to maintain an agreement with each firm. For purposes of EDGX rules, conducting a retail business includes carrying retail customer accounts on a fully disclosed basis.

This Agreement has been created for your convenience as an alternative to creating your own agreement. It should be kept for your files.

1. This Retail Member Organization – Broker-Dealer Customer Agreement (the “Agreement”) is between _____, (the “RMO”) and _____, (the “Customer”), which is a registered broker-dealer.
2. This Agreement authorizes the RMO to route Retail Orders and modifications to EDGX on behalf of Customer pursuant to EDGX Rule 11.21.
3. By executing this Agreement, Customer represents that it will only send orders to the RMO that are to be designated as Retail Orders if the entry of such orders to EDGX will be in compliance with the requirements of Rule 11.21. Customer represents that it will designate orders as Retail Orders if the order is an agency order or riskless principal order that meets the criteria of FINRA Rule 5320.03 that originates from a natural person, provided that no change has been made to the terms of the order with respect to the side of market, and the order does not originate from a trading algorithm or any other computerized methodology. Customer further represents that it will maintain written supervisory procedures reasonably designed to assure that it will only designate orders as Retail Orders if the requirements of a retail order are met. Customer agrees to attest annually that it continues to comply with the conditions outlined in this paragraph.

Retail Member Organization

Customer

Signature

Signature

Print Name

Print Name

Title (must be an officer)

Title (must be an officer)

Name of Member Organization

Name of Customer

WebCRD #

WebCRD #

Date

Date

Cboe EDGX Exchange, Inc.
Broker-Dealer Customer Annual Attestation

If you do not conduct a retail business but are routing retail order flow on behalf of one or more other broker-dealers, your firm is required to obtain an annual written attestation from each firm. For purposes of EDGX rules, conducting a retail business includes carrying retail customer accounts on a fully disclosed basis.

This Attestation has been created for your convenience and represents a form of Attestation acceptable to the Exchange. Copies of this Attestation should be kept for your files.

1. In connection with the Retail Member Organization Application of _____ (the “RMO”) and pursuant to EDGX Rule 11.21, the undersigned (“Customer”) represents that it is a Broker-Dealer Customer of the RMO and sends orders to the RMO pursuant to the Retail Member Organization – Broker-Dealer Customer Agreement.

2. By executing this Attestation, Customer hereby certifies the following:
 - (a) It only sends orders to the RMO that are designated as Retail Orders and are in compliance with the requirements of EDGX Rule 11.21.
 - (b) It designates orders as Retail Orders if the order is an agency order or riskless principal order that meets the criteria of FINRA Rule 5320.03 that originates from a natural person, provided that no change has been made to the terms of the order with respect to the side of market, and the order does not originate from a trading algorithm or any other computerized methodology.
 - (c) It maintains written supervisory procedures reasonably designed to assure that it will only designate orders as Retail Orders if the requirements of a retail order are met.

Customer

Signature

Print Name

Title (must be an officer)

Name of Customer

WebCRD #

Date

Direct Debit Opt-In Form

The Depository Trust & Clearing Corporation offers a Direct Debit program that allows Exchanges to bill their Members directly through the Clearing Firm's account. Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc. and Cboe EDGX Exchange, Inc. (each, an "Exchange") use this process to bill Section 31 Fees (mandatory direct debit) and Transaction Fees (optional direct debit).

To Opt-In for Direct Debit of Transaction Fees, this Form must be completed for each Member/Clearing Firm relationship. An executed version of this Form can be delivered to the Exchange via email to MembershipServices@cboe.com.

All Transaction Fee invoices that result in a credit due to the Member will be cleared during the Exchange's regular rebate processing. These payments can be in the form of a check or ACH, according to the Member's preference.

Trading Platform(s), check all that apply:

- Cboe BZX Exchange, Inc.
- Cboe BYX Exchange, Inc.
- Cboe EDGA Exchange, Inc.
- Cboe EDGX Exchange, Inc.

MPID(s), list all that apply attaching additional page(s) as necessary:

Member Name

Clearing Firm Name / NSCC #

Signature of Authorized Officer, Partner or Managing Member or Sole Proprietor

Signature of Authorized Officer, Partner or Managing Member or Sole Proprietor

Printed Name / Title

Printed Name / Title

Date

Date

Non-Member Clearing Firm Information Document

INFORMATION DOCUMENT – To be completed by the Non-Member Clearing Firm of Members of Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc. and Cboe EDGX Exchange, Inc. (each, an “Exchange”).

The undersigned Clearing Firm represents that it is a member of the National Securities Clearing Corporation (“NSCC”), a clearing agency registered with the Securities Exchange Commission pursuant to Section 17A of the Securities Exchange Act of 1934. The undersigned further represents that it is requesting to have its NSCC participant number added to the Exchange’s system to facilitate clearance and settlement of transactions made by Members of the Exchange.

An executed version of this Document can be delivered to the Exchange via email to MembershipServices@cboe.com.

GENERAL INFORMATION		
Clearing Firm Name:		NSCC #:
Address of Principal Office:		
City:	State:	Zip:
BUSINESS CONTACT		
Name:	Email:	
Title:	Phone:	
CLEARING LETTER OF GUARANTEE CONTACT		
Name:	Email:	
Title:	Phone:	
CLEARING BREAKS CONTACT		
Name:	Email:	
Title:	Phone:	

Signature of Authorized Officer, Partner or Managing
Member or Sole Proprietor of Clearing Firm

Printed Name / Title

Date

Volume Aggregation and Volume Details Request

This request for volume aggregation and detailed execution information is made to Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc., and Cboe EDGX Exchange, Inc. (collectively, the “Exchange”) by the Members noted below. This request should be completed by Members who are affiliated as evidenced on each Member’s Form BD or who have been appointed as an Appointed Order Entry Firm / Appointed Market Maker pursuant to the Exchange’s fee schedule. “Affiliate” shall mean any entity that, from time to time, directly or indirectly, Controls, is Controlled by, or is under common Control with such party. “Control” means the power to direct or cause the direction of the management of policies of another entity, whether through the ownership of voting securities, by contract, or otherwise.

The Members noted below would like to request aggregation of all equities and options volume submitted to the Exchange by each Member with an approved trading ID. Additionally, the Members request detailed information regarding aggregated volume on the Exchange. By signing below, each Member acknowledges and agrees that the other Member will have access to the same detailed information regarding aggregated volume on the Exchange and releases each Exchange from any liability associated with providing such information.

An executed version of this Request can be delivered to the Exchange via email to MembershipServices@cboe.com.

Member Name: _____	CRD #: _____
Signature of Authorized Officer, Partner, Managing Member or Sole Proprietor _____	Date _____
Printed Name	Title

Member Name: _____	CRD #: _____
Signature of Authorized Officer, Partner, Managing Member or Sole Proprietor _____	Date _____
Printed Name	Title

Member Name: _____	CRD #: _____
Signature of Authorized Officer, Partner, Managing Member or Sole Proprietor _____	Date _____
Printed Name	Title

Sponsored Access Application

In order to join Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc. and Cboe EDGX Exchange, Inc. (each, an “Exchange”) as a Sponsored Participant, an Applicant and their Sponsoring Member must complete and submit all materials listed on the Application Checklist below via email to MembershipServices@cboe.com.

APPLICATION CHECKLIST	
<input type="checkbox"/>	Sponsored Access Application, including Sponsoring Member Consent and Sponsored Participant Agreement
<input type="checkbox"/>	User Agreement – per Exchange
<input type="checkbox"/>	Securities Routing Agreement – per Exchange
<input type="checkbox"/>	IRS Form W-9 or W-8
<input type="checkbox"/>	A detailed description of how the Sponsoring Member will comply with the requirements of SEC Rule 15c3-5: <i>Risk Management Controls for Brokers or Dealers with Market Access</i>
<input type="checkbox"/>	A copy of the Sponsoring Member’s Policies and Procedures, specifically addressing SEC Rule 15c3-5

Note: All application materials sent to the Exchange will be reviewed for completeness. All applications are deemed confidential and are handled in a secure environment. Applications may, however, be shared with other self-regulatory organizations (e.g., FINRA), as necessary, to evaluate and process the application.

The Exchange may request applicants to submit documentation in addition to what is listed in the Application Checklist during the application review process. If you have questions on completing the application, you may direct them to Membership Services at MembershipServices@cboe.com or 913.815.7002.

Sponsored Access Application

SPONSORING MEMBER INFORMATION			SPONSORING MEMBER BUSINESS CONTACT
Firm:			Name:
Address:			Email:
City:	State:	Zip:	Phone:

SPONSORED PARTICIPANT INFORMATION			SPONSORED PARTICIPANT BUSINESS CONTACT
Firm:			Name:
Address:			Email:
City:	State:	Zip:	Phone:

SPONSORED PARTICIPANT BILLING ADDRESS			SPONSORED PARTICIPANT BILLING CONTACT
Firm:			Name:
Address:			Email:
City:	State:	Zip:	Phone:

ACCOUNT ADMINISTRATORS

A Sponsored Participant must designate an Account Administrator who will be authorized to grant permission and user access within the Cboe Customer Web Portal. More than one Account Administrator may be designated and there is not a maximum number of Account Administrators allowed per Sponsored Participant. Account Administrators will be able to grant access to tools within the Customer Web Portal including, but not limited to, historical market data subscriptions; logical port request, modify or delete form; physical connection request form and invoices and billing files.

Name:	Title:
Email:	Phone:

Name:	Title:
Email:	Phone:

CLEARING

List the MPID/NSCC # that the Sponsored Participant is permitted to use: _____ / _____

List the Executing Firm ID/OCC # that the Sponsored Participant is permitted to use: _____ / _____

CONNECTIVITY

Which connectivity option will the Sponsored Participant use? (check one)

Cross Connect* Extranet: _____ VPN (certification only)

What type of connections is the Sponsored Participant requesting? Certification Production

*If requesting a cross connect, a [Connectivity Services Agreement](#) is also required.

AUTHORIZATION

This form is governed by all terms and conditions set forth in the Exchange Sponsored Access Application and Agreements. The Exchange provides a best effort attempt to cancel all open orders from a Member/Sponsored Participant upon a communication disconnect. There is no guarantee that the automatic cancel feature provided by the Exchange will be error free or will operate without interruption. By signing below, you agree and acknowledge that the Exchange is not liable or responsible in any way for any orders which may fail to be cancelled using the automatic cancel feature. **Members may call the Cboe Trade Desk at 913.815.7001 to verbally request that all open orders be cancelled or check the status of open orders.**

Sponsoring Member Name:

Date:

Signature of Authorized Officer, Partner, Managing Member or
Sole Proprietor:

Printed Name:

Title:

Sponsoring Member Consent

We, _____, a Member of the Exchange, are hereby notifying the Exchange that we intend to be a Sponsoring Member providing access to a Sponsored Participant, as those terms are defined in Exchange Rule 11.3, by permitting the Sponsored Participant identified below to send orders directly to the Exchange using our mnemonic (or the mnemonic of our clearing broker, as applicable).

We acknowledge and agree that we are responsible for all orders entered on or through the Exchange by the Sponsored Participant and any person acting on behalf of or in the name of such Sponsored Participant. We further acknowledge and agree that we must be identified on any order submitted by the Sponsored Participant as the Sponsoring Member of that order, and that any execution occurring as a result of an order entered by a Sponsored Participant shall be binding in all respects on us. In that regard, we acknowledge and agree that we are acting as agent for the person submitting the order through sponsored access, and as such, that we are responsible for all related contractual and regulatory obligations. We further acknowledge and agree that we are responsible for any and all actions taken by the Sponsored Participant or any person acting on behalf of or in the name of the Sponsored Participant on or through the Exchange.

In addition to Exchange Rule 11.3, we have further reviewed other provisions of the Rules of the Exchange and the terms of our User Agreement with the Exchange. The Sponsored Participant has agreed to comply with all applicable Rules of the Exchange governing the entry, execution, reporting, clearing and settling of orders in securities eligible for trading on the Exchange. We understand that we are required and agree to impose appropriate regulatory and supervisory procedures in connection with orders directed to the Exchange by the Sponsored Participant.

Sponsoring Member Name

CRD Number

Signature of Authorized Officer, Partner, Managing Member or Sole Proprietor

Date

Printed Name

Title

Sponsored Participant Agreement

On behalf of the Sponsored Participant, the undersigned agrees to comply with the Exchange Certificate of Incorporation, Bylaws, and Rules of the Exchange, and all written interpretations thereof, as if Sponsored Participant were a Member of the Exchange. These requirements include, but shall not be limited to, the items listed below.

The Sponsored Participant:

- shall enter into and maintain a User Agreement with the Exchange;
- shall enter into and maintain a Routing Agreement with Cboe Trading, Inc., if it will use the routing services provided by that entity;
- shall maintain, keep current and provide to the Sponsoring Member, and to the Exchange upon request, a list of Authorized Traders who may obtain access to the System on behalf of the Sponsored Participant. Sponsored Participant shall be subject to the obligations of Exchange Rule 11.4 with respect to such Authorized Traders;
- shall familiarize its Authorized Traders with all of its obligations under Exchange Rule 11.3 and will assure that they receive appropriate training prior to any use or access to the Exchange;
- may not permit anyone other than Authorized Traders to use or obtain access to the Exchange;
- shall take reasonable security precautions to prevent unauthorized use or access to the Exchange, including unauthorized entry of information into the Exchange, or the information and data made available therein. Sponsored Participant understands and agrees that Sponsored Participant is responsible for any and all orders, trades and other messages and instructions entered, transmitted or received under identifiers, passwords and security codes of Authorized Traders, and for the trading and other consequences thereof;
- acknowledges its responsibility to establish adequate procedures and controls that permit it to effectively monitor its employees', agents', and customers' use and access to the Exchange for compliance with the terms of this agreement; and
- shall pay when due all amounts, if any, payable to Sponsoring Member, the Exchange or any other third parties that arise from the Sponsored Participant's access to and use of the Exchange. Such amounts include, but are not limited to applicable Exchange and regulatory fees.

Authorized Acknowledgement of Sponsored Participant:

The undersigned, as a duly appointed Officer, Partner, Managing Member, or Sole Proprietor of the applicant Sponsored Participant, does hereby acknowledge and agree to the terms and provisions of Exchange Rule 11.3, and shall comply with the Exchange Rules, as amended

Sponsored Participant Name

CRD Number (if applicable)

Signature of Authorized Officer, Partner, Managing Member or Sole Proprietor

Date

Printed Name

Title

Connectivity Services Agreement

This Connectivity Services Agreement (“Agreement”) is a binding agreement among you (“User”) and each of Cboe BZX Exchange, Inc., Cboe BYX Exchange, Inc., Cboe EDGA Exchange, Inc., Cboe EDGX Exchange, Inc., Cboe Futures Exchange, LLC, Cboe C2 Exchange, Inc. and Cboe Exchange, Inc. (collectively, the “Exchange”), with principal offices at 400 S. LaSalle Street, Chicago, Illinois 60605, and shall be effective as of the date executed on the signature page hereof (the “Effective Date”).

1. Services. This Agreement authorizes User to receive the Services. As used in this Agreement, “Services” shall mean (i) those services described on User’s connectivity order form (the “Order Form”) and (ii) any other connectivity services provided by the Exchange to User to the extent such services are not addressed by another agreement between the Exchange and User. User acknowledges and agrees that nothing in this Agreement constitutes an understanding by the Exchange to continue any aspect of the Services in their current form. The Exchange may from time to time make additions, deletions or modifications to the Services. In such event, the Exchange shall use commercially reasonable efforts to notify User prior to any such change becoming effective. User’s continued use of the Services following the modification will constitute User’s acceptance of the modification.

2. Connectivity and Redistribution. User is solely responsible for providing and maintaining all necessary electronic communications required to link to the Services, including wiring, computer hardware, software, communication line access, and networking devices (as applicable). This Agreement authorizes User to access the Exchange physically in order to provide Authorized Third Parties (as defined herein) with access to the Exchange and/or certain data feeds associated therewith and/or certain other authorized non-Exchange services. In order to receive and/or redistribute Exchange data, User shall also enter into a market data agreement with the Exchange (the “Data Agreement”). Nothing herein shall limit User’s requirements and obligations arising under the Data Agreement, if applicable. User shall take reasonable security precautions to prevent unauthorized individuals or entities from gaining access to the Exchange. User shall comply with all reasonable security specifications or requirements of the Exchange in order to prevent the Exchange and Exchange data from being improperly used or accessed, or from being improperly taken. User shall not provide any third party with access to the Exchange or Exchange data unless such third party is an Authorized Third Party, pursuant to the Exchange’s prior written consent. For purposes of this Agreement, an “Authorized Third Party” is a party that the Exchange has approved to connect to the Exchange via connectivity supplied by User and/or to receive Exchange data or other Exchange authorized services transmitted through User.

2.1 Approval and Termination Notice Requirements. In order for a party to be approved as an Authorized Third Party, User must submit a request to the Exchange that includes the name and contact information of the party to whom connectivity will be provided. The Exchange will typically approve or reject a request within two (2) business days, but is under no obligation to respond within that time frame. Where a request is rejected by the Exchange, User may not provide the applicable party with connectivity to the Exchange. In the event User desires to terminate the provision of Services to an Authorized Third Party, User must submit written notice to the Exchange that identifies the name of the Authorized Third Party and the effective date of such termination. All notifications submitted to the Exchange pursuant to this Agreement shall be given in accordance with the applicable Connectivity Manual, available [here](#) or [here](#) (Cboe Futures Exchange only), each as may be amended from time to time (the “Connectivity Manual”). If any Authorized Third Party fails to comply with any of the conditions, terms or provisions of this Agreement, as applicable to such Authorized Third Party, a Data Agreement, or any other agreement between an Authorized Third Party and the Exchange or an affiliate of the Exchange, and the Authorized Third Party has failed to cure such non-compliance within the cure period, if any, set forth in the applicable agreement, or if an Authorized Third Party has made any representation in any such agreement which was or has become untrue, then User shall, within five (5) business days after receipt of notice from the Exchange of such failure or untruth, cease providing access to the Exchange and/or Exchange data to such Authorized Third Party and shall, within seven (7) business days following the receipt of such notice, confirm such cessation by notice to the Exchange.

2.2 List of Authorized Third Parties. User shall maintain, keep current, and provide to the Exchange promptly upon request a list of Authorized Third Parties to whom User provides access to the Exchange and/or certain data feeds associated therewith. Unless otherwise provided by the Exchange, User shall use reasonable efforts to respond to such a request within fifteen (15) days of receipt of the request.

2.3 Network Requirements. User must comply with all applicable Cboe Global Markets Network Requirements, contained in the Connectivity Manual. The Exchange will provide notice of any material amendments to the Cboe Global Markets Network Requirements and User shall comply with the amended Cboe Global Markets Network Requirements within thirty (30) days of receipt of such notice.

3. Fees.

3.1 Services Fees. User agrees to make timely payment of all Services fees, as well as any applicable late fees, in accordance with the payment terms set forth in the Order Form or, if none are specified, within thirty (30) days of the invoice date. In the event of User's failure to make payment within such time period, the Exchange reserves the right to terminate the subject Service or Services upon notice to User. User will be solely responsible for any and all telecommunications costs and all other expenses incurred in linking to, and maintaining its link to, the Services. User shall pay the Exchange a late charge in the amount of 1% per month on all past due amounts that are not the subject of a legitimate and bona fide dispute.

3.2 Adjustments to Services Fees. The Exchange may adjust the fees for the Services upon reasonable notice to User; provided, however, that the Exchange may pass through to User, without notice, any third party charges, fees, taxes, or terms and conditions incurred by the Exchange in connection with the provision of Services. If User is receiving a physical connection from the Exchange, User may acquire a physical connection for transition purposes at no additional cost, provided that User transitions its connection within three (3) weeks from the date at which the replacement connection is live (i.e., the Exchange switchport is configured and connected to a User circuit or cross-connect). If, after three (3) weeks, the legacy connection is not terminated, User will be charged for an additional connection.

4. Term. The initial, one (1) month term of this Agreement shall commence upon the Effective Date and shall automatically renew for additional one (1) month terms at the beginning of each subsequent calendar month thereafter, unless terminated by User or the Exchange as provided below.

5. Termination.

5.1 By User. User may terminate this Agreement upon thirty (30) days' prior written notice to the Exchange. User may cancel any physical connection provided hereunder by submitting a request to the Exchange in accordance with the requirements set forth in the applicable Connectivity Manual.

5.2 By the Exchange. The Exchange may terminate this Agreement, any or all of the Services provided hereunder, or any authorization to allow connectivity to an Authorized Third Party at any time or from time to time upon thirty (30) days' prior written notice to User. Notwithstanding the foregoing, the Exchange may suspend or terminate the Services immediately upon notice to User if it determines, in the Exchange's sole reasonable discretion, that: (i) User has breached any material term of this Agreement; (ii) User is engaged in activities that the Exchange determines are or may be detrimental to the Exchange, its investors or its Exchange Members, Trading Permit Holders or Trading Privilege Holders (each as defined in the Exchange Rules), as applicable, including without limitation, detrimental to the performance and operation of the Services; (iii) User has become insolvent; has made an assignment for the benefit of creditors; is not paying debts as they become due, or admits, in writing, its inability to pay debts when due; has filed, or has filed against it, any petition under any applicable bankruptcy laws or an application for a receiver, trustee, or custodian of User is made by anyone; or User becomes the subject of any proceedings of bankruptcy, insolvency, reorganization, dissolution, receivership, liquidation or arrangement, adjustment, or composition, or otherwise poses a credit risk to the Exchange, its investors or its Exchange Members, Trading Permit Holders or Trading Privilege Holders, as applicable; (iv) User is retransmitting or republishing any Exchange data feeds, including market data, or providing any connectivity to the Exchange without the prior approval of the Exchange; (v) User has violated any Exchange Rules; (vi) if User is a Member, Trading Permit Holder or Trading Privilege Holder of an Exchange, User ceases to be a Member, Trading Permit Holder or Trading Privilege Holder in good standing with the applicable Exchange, or User is otherwise no longer authorized to use the Services; or (vii) any representations or warranties made by User in connection with this Agreement are or become false or misleading.

5.3 Consequences of Termination. Upon the termination of this Agreement for any reason, all rights granted to User hereunder will cease and User shall immediately pay to the Exchange any and all amounts owed to the Exchange under this Agreement, including without limitation all Services fees owed in respect of the entirety of the then current calendar month (e.g., if the Agreement is terminated on February 15th, Users shall nevertheless be required to pay the Exchange the monthly Services fees for the entirety of the month of February). The following Sections will survive the termination or expiration of this Agreement for any reason: Sections 3, 5.3, and 6 through 14. In no event will termination of this Agreement relieve User of any obligations incurred prior to the effective date of termination or through its use of or connection to the Services.

6. Disclaimer of Warranty. THE SERVICES ARE PROVIDED AS-IS, WITHOUT WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, ANY IMPLIED CONDITIONS OR WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR USE OR PURPOSE, ANY IMPLIED WARRANTY ARISING FROM TRADE USAGE, COURSE OF DEALING OR COURSE OF PERFORMANCE, AND OF

ANY OTHER WARRANTY OR OBLIGATION WITH RESPECT TO ANY SOFTWARE OR OTHER MATERIALS, OR ANY SERVICES, MADE AVAILABLE TO USER, AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED. THERE IS NO WARRANTY THAT THE SERVICES PROVIDED BY THE EXCHANGE WILL MEET USER'S REQUIREMENTS, BE ERROR FREE, OR OPERATE WITHOUT INTERRUPTION. THE EXCHANGE GIVES NO WARRANTIES OF ANY KIND AS TO THE FITNESS, CAPACITY, OR CONDUCT OF ANY OTHER PERSON HAVING ACCESS TO THE SERVICES AND SHALL NOT BE HELD LIABLE TO OR THROUGH USER OR OTHERWISE FOR ANY USE OR ABUSE WHATSOEVER OF THE SERVICES BY ANOTHER PERSON HAVING ACCESS TO THE SERVICES INCLUDING, WITHOUT LIMITATION, ANY FAILURE TO CONCLUDE TRANSACTIONS OR OBSERVE APPLICABLE MARKET REGULATIONS OR CONVENTIONS OR TO PAY REQUISITE TAXES OR OTHER CHARGES ON ANY TRANSACTIONS OR TO OTHERWISE ACT LAWFULLY.

7. No Consequential Damages. ABSENT FRAUD OR WILLFUL MISCONDUCT BY THE EXCHANGE OR A CLAIM ARISING OUT OF THE EXCHANGE'S INDEMNIFICATION OBLIGATIONS (AS DESCRIBED BELOW), UNDER NO CIRCUMSTANCES WILL THE EXCHANGE OR ITS AGENTS, AFFILIATES OR LICENSORS BE LIABLE FOR ANY LOSS, DAMAGE, CLAIM OR EXPENSE, INCLUDING WITHOUT LIMITATION ANY DIRECT, CONSEQUENTIAL, INDIRECT, SPECIAL, PUNITIVE OR INCIDENTAL DAMAGES OR LOST PROFITS, WHETHER FORESEEABLE OR UNFORESEEABLE, BASED ON USER'S CLAIMS OR THE CLAIMS OF ITS CUSTOMERS, EMPLOYEES OR AGENTS (INCLUDING, BUT NOT LIMITED TO, CLAIMS FOR LOSS OF DATA, GOODWILL, USE OF MONEY OR USE OF THE SERVICES, INTERRUPTION IN USE OR AVAILABILITY OF THE SERVICES, STOPPAGE OF OTHER WORK OR IMPAIRMENT OF OTHER ASSETS), ARISING OUT OF BREACH OR FAILURE OF EXPRESS OR IMPLIED WARRANTY, BREACH OF CONTRACT, MISREPRESENTATION, NEGLIGENCE, STRICT LIABILITY IN TORT OR OTHERWISE. THIS SECTION WILL NOT APPLY ONLY WHEN AND TO THE EXTENT THAT APPLICABLE LAW SPECIFICALLY REQUIRES LIABILITY, DESPITE THE FOREGOING EXCLUSION AND LIMITATION. NOTWITHSTANDING THE FOREGOING, BUT SUBJECT TO THE EXPRESS LIMITS SET FORTH BELOW, THE EXCHANGE MAY BE LIABLE TO USER, IF USER IS AN EXCHANGE MEMBER, TRADING PERMIT HOLDER OR TRADING PRIVILEGE HOLDER, TO THE EXTENT SUCH LIABILITY ARISES BASED ON ITS THEN APPLICABLE EXCHANGE RULE CONCERNING LIMITATION OF LIABILITY. EXCEPT FOR FRAUD, WILLFUL MISCONDUCT, OR A CLAIM ARISING OUT OF THE EXCHANGE'S INDEMNIFICATION OBLIGATIONS STATED BELOW, THE EXCHANGE'S TOTAL LIABILITY IN RESPECT OF ANY AND ALL CLAIMS ARISING FROM OR RELATED TO THIS AGREEMENT, IN CONTRACT, TORT, OR OTHERWISE, WILL BE LIMITED TO THE LESSER OF: (i) ACTUAL DAMAGES INCURRED BY CLIENT AS A DIRECT RESULT OF THE EXCHANGE'S ACT OR OMISSION, AND (ii) \$10,000.

8. Indemnification by User. User agrees to indemnify and hold harmless the Exchange, its owners, subsidiaries, and affiliates, its and their respective officers, directors, employees, and agents, and any related persons and entities, from and against all expenses and costs and damages (including any reasonable legal fees and expenses), direct, consequential, and/or incidental in nature, claims, demands, proceedings, suits, and actions, and all liabilities resulting from, in connection with, or arising out of any failure by User, for any reason, fraudulent, negligent or otherwise, to comply with its obligations under this Agreement, unless such expenses, costs, damages, claims, demands, proceedings, suits, actions, or liabilities arise from the Exchange's willful misconduct, fraud or breach of the Exchange's obligations under this Agreement.

9. Indemnification by the Exchange. The Exchange agrees to indemnify, defend and hold harmless User and its subsidiaries and affiliates, and its and their respective officers, directors, employees, and agents, from and against all expenses and costs and damages (including any reasonable legal fees and expenses), direct, consequential, and/or incidental in nature, claims, demands, proceedings, suits, and actions, and all liabilities resulting from, in connection with, or arising out of any third party claim that the Exchange or the Services, or User's use thereof, infringes any copyright, patent, trademark, trade secret or other intellectual property right. All obligations of each Exchange are several and not joint, and in no event shall an Exchange have any liability or obligation with respect to the acts or omissions of any other Exchange to this Agreement.

10. Assignment. User's rights hereunder to use the Services during the term of this Agreement are personal, nonexclusive and nontransferable. User shall not assign, delegate or otherwise transfer this Agreement, or any of its rights or obligations hereunder, without the Exchange's prior approval, which will not be unreasonably withheld. The Exchange may assign or transfer this Agreement, or any of its rights or obligations hereunder, to a related or unrelated party, upon notice to User.

11. Force Majeure. Neither party to this Agreement will be liable for delay or failure to perform its obligations hereunder (other than a failure to pay amounts when due) caused by an event that is beyond the party's control; provided, however, that such party will not have contributed in any way to such event.

12. Severability. Each provision of this Agreement will be deemed to be effective and valid under applicable law, but if any provision of this Agreement is determined to be invalid, void, or unenforceable under any law, rule, administrative order or judicial decision, that determination will not affect the validity of the remaining provisions of this Agreement.

13. Amendment. This Agreement may be amended from time to time by the Exchange in its sole discretion, and the Exchange shall provide reasonable notice to User prior to any such amended Agreement becoming effective. Use of any Services following any amendment of this Agreement becoming effective shall constitute User's agreement to such amendment.

14. Miscellaneous. All notices or approvals required or permitted under this Agreement must be given in writing to the Exchange at the address specified above or to User at its last reported principal office address. No waiver under this Agreement will be effective unless executed in writing and signed by the party waiving any of its rights hereunder. This Agreement will bind each party's successors-in-interest. This Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York, USA. Both parties submit to the jurisdiction of the state and federal courts in and for the State of New York, USA for the resolution of any dispute arising under this Agreement. This Agreement, together with the Order Form, any addendums or schedules hereto and any other documents incorporated by reference, constitutes the complete and entire statement of all conditions and representations of the agreement between the Exchange and User with respect to its subject matter, and supersedes all prior writings or understandings with respect to such subject matter. In the event of any conflict between the business terms of the main body of this Agreement and any business terms set forth in an Order Form, such terms set forth in the Order Form shall govern.

IN WITNESS WHEREOF the parties hereto have caused this Agreement to be executed by their duly authorized officers.

Cboe BZX Exchange, Inc.; Cboe BYX Exchange, Inc.;
Cboe EDGA Exchange, Inc.; Cboe EDGX Exchange, Inc.;
Cboe Futures Exchange, LLC; Cboe C2 Exchange, Inc.;
Cboe Exchange, Inc.

User : _____

Signature: _____

Printed Name: _____

Title: _____

Signature: _____

Printed Name: _____

Title: _____

Date: _____

Options Member Application

Any currently approved Member of Cboe BZX Exchange, Inc. or Cboe EDGX Exchange, Inc. (each, an “Exchange”) is eligible to transact business on the Exchange’s Options Market provided that the Exchange specifically authorizes the Member as an “Options Member.” To become an Options Member, a current Exchange Member is required to complete this Options Member Application. An Applicant who is not currently an Exchange Member is required to complete the general [Membership Application and Agreements](#) and this Options Member Application to transact business on the Exchange’s Options Market.

To apply, please complete and submit all materials listed on the Application Checklist below via email to MembershipServices@cboe.com.

Applicants are required to update any information submitted in this application when and if it becomes inaccurate or incomplete after submission.

APPLICATION CHECKLIST
<input type="checkbox"/> Membership Application
<input type="checkbox"/> Options Member Letter of Guarantee – per Exchange; applicable to non-clearing Applicants
OR
<input type="checkbox"/> Options Self Clearing Member Letter of Guarantee – per Exchange; applicable to clearing Applicants
<input type="checkbox"/> Options Member Agreement – per Exchange
<input type="checkbox"/> A list of all Authorized Traders, including name and CRD #, the Applicant will be registering with the Exchange

Note: All application materials sent to the Exchange will be reviewed for completeness. All applications are deemed confidential and are handled in a secure environment. Applications may, however, be shared with other self-regulatory organizations (e.g., FINRA), as necessary, to evaluate and process the application.

The Exchange may request applicants to submit documentation in addition to what is listed in the Application Checklist during the application review process, pursuant to Exchange Rule 17.1. If you have questions on completing the application, you may direct them to Membership Services at MembershipServices@cboe.com or 913.815.7002. In addition, please refer to the Exchange’s website at www.cboe.com for additional information regarding the membership process.

Options Member Application

GENERAL INFORMATION		
Date:	CRD #:	
Name of Applicant:		
Address of Principal Office:		
City:	State:	Zip:
BILLING ADDRESS		
Address of Billing Office:		
City:	State:	Zip:
BUSINESS CONTACT	BILLING CONTACT	
Name:	Name:	
Title:	Title:	
CRD #:	CRD #:	
Email:	Email:	
Phone:	Phone:	
OTHER SELF-REGULATORY ORGANIZATION MEMBERSHIPS (check all that apply)		
<input type="checkbox"/> BOX Exchange LLC <input type="checkbox"/> Cboe BZX Options Market <input type="checkbox"/> Cboe C2 Exchange, Inc. <input type="checkbox"/> Cboe EDGX Options Market <input type="checkbox"/> Cboe Exchange, Inc. <input type="checkbox"/> Financial Industry Regulatory Authority <input type="checkbox"/> MIAX Emerald <input type="checkbox"/> MIAX Options <input type="checkbox"/> MIAX PEARL	<input type="checkbox"/> Nasdaq BX Options <input type="checkbox"/> Nasdaq GEMX <input type="checkbox"/> Nasdaq ISE <input type="checkbox"/> Nasdaq MRX <input type="checkbox"/> Nasdaq Options Market <input type="checkbox"/> Nasdaq PHLX <input type="checkbox"/> NYSE American Options <input type="checkbox"/> NYSE Arca Options	
Name of Applicant's Designated Examining Authority (DEA): _____		
EXAMINATIONS		
State the date of the Applicant's last examination during which supervisory procedures were reviewed and by which SRO.		
Date: _____ SRO: _____		
OPTIONS ALLOCATION METHOD		
Indicate the allocation method for exercise notices assigned in respect of a short position in Applicant's customers' accounts (Exchange Rule 23.2).		
<input type="checkbox"/> First in, first out <input type="checkbox"/> Automated random selection <input type="checkbox"/> Other _____ <input type="checkbox"/> Not applicable		
MARGIN REQUIREMENTS SELECTION		
Indicate the applicable initial and maintenance margin requirements (Exchange Rule 28.3).		
<input type="checkbox"/> Cboe Options or <input type="checkbox"/> NYSE		

PRINCIPAL REGISTRATION

The Exchange requires each Options Member to be under the supervision and control of a Responsible Person who is registered with the Exchange as an Options Principal. Each Options Principal shall pass the appropriate Registered Options Principal Qualification Examination (“Series 4”), or an equivalent examination acceptable to the Exchange. See Exchange Rule 17.1(b) and 17.2(g) for additional information regarding principal registration. Please indicate below the individual that the Applicant intends to register with the Exchange to comply with these requirements.

Name:	Title:	CRD #:
Business Address:		
Phone:	Email:	

[Remainder of page intentionally left blank.]

Options Market Maker Registration Application

Any currently approved Options Member of Cboe BZX Exchange, Inc. (“BZX”) or Cboe EDGX Exchange, Inc. (“EDGX”) (each, an “Exchange”) is eligible to transact business as a Market Maker on the Exchange’s Options Market provided that the Exchange specifically authorizes the Options Member as a Market Maker. To become a Market Maker, a current Options Member is required to complete this Options Market Maker Registration Application. The Exchange may require additional information from any Applicant prior to determining whether to register such Applicant as an Options Market Maker.

To apply, please complete this Options Market Maker Registration Application and submit with all required supplementary materials via email to MembershipServices@cboe.com.

Applicants are required to update any information submitted in the application when and if it becomes inaccurate or incomplete after submission.

GENERAL INFORMATION		
Date:	CRD #:	
Name of Applicant:		
Address of Principal Office:		
City:	State:	Zip:
EFID(s) to be used:		
OTHER BUSINESS ACTIVITIES		
<div style="display: flex; justify-content: space-between;"> <div style="width: 30%;"><input type="checkbox"/> Investment Banking</div> <div style="width: 30%;"><input type="checkbox"/> Public Securities Business</div> <div style="width: 30%;"><input type="checkbox"/> Proprietary Trading</div> </div> <div style="display: flex; justify-content: space-between; margin-top: 5px;"> <div style="width: 30%;"><input type="checkbox"/> Market Maker</div> <div style="width: 30%;"><input type="checkbox"/> Dealer / Specialist</div> <div style="width: 30%;"><input type="checkbox"/> Other: _____</div> </div> <p style="margin-top: 10px;">If the Applicant is a Market Maker or Dealer/Specialist, please provide a list of the registered national securities exchange(s) or association(s) on which the Applicant has been approved as such:</p>		
SECURITIES		
Estimate the number of securities in which the Applicant intends to become registered as a Market Maker: _____		
FINANCIAL / ADDITIONAL REQUIREMENTS		
<p>Excess Net Capital Amount: _____ As of Date: _____</p> <p>Attach the following:</p> <ul style="list-style-type: none"> <input type="checkbox"/> List identifying all accounts pursuant to Exchange Rule 22.7(a) - <i>required</i> <input type="checkbox"/> List identifying all joint accounts pursuant to Exchange Rule 22.7(c) - <i>if applicable</i> <input type="checkbox"/> Most recent FOCUS Report (Refer to Exchange Rule 22.9(a)) - <i>required</i> <input type="checkbox"/> Subordination agreements or evidence of other financing arrangement (Refer to Exchange Rule 22.9(b)) - <i>if applicable</i> 		

AUTHORIZED TRADERS

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX EDGX

Will a web log-in be required for this individual? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX EDGX

Will a web log-in be required for this individual? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX EDGX

Will a web log-in be required for this individual? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX EDGX

Will a web log-in be required for this individual? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

Name: _____ CRD #: _____

Series 7 Qualification Series 57 Qualification

Seeking registration on: BZX EDGX

Will a web log-in be required for this individual? Yes No

If yes, please provide the information below:

Email address: _____ Phone Number: _____

The undersigned attests that the information provided in this application on behalf of the Applicant is complete and accurate. Furthermore, the undersigned acknowledges that the Applicant agrees to update the application as necessary, and to abide by all rules of the Exchange, and interpretations thereof, as they currently exist and as they may be added, supplemented and/or amended from time to time.

Signature of Authorized Officer, Partner, Managing Member
or Sole Proprietor

Printed Name

Title

Date

Registration of OCC Clearing Number(s) For Options Regulatory Fee ('ORF') Billing Calculation

Each Cboe Clearing Trading Permit Holder and Clearing Member ("Member") must identify all Options Clearing Corporation ("OCC") clearing numbers associated with its membership, including those that are not registered to be given up on transactions executed on the Exchange.

The ORF is assessed by the Exchange to each Member for options transactions cleared by the Member that are cleared by OCC in the customer range, regardless of the exchange on which the transaction occurs.

Trading Platform: Check the applicable Exchange trading platform(s):

- Cboe BZX Exchange, Inc.
- Cboe C2 Exchange, Inc.
- Cboe EDGX Exchange, Inc.
- Cboe Exchange, Inc.

OCC CLEARING MEMBER				
Member Name:				
BILLING CONTACT				
Name:		Title:		
Phone:		Email:		
OCC CLEARING NUMBER DESIGNATION				
OCC #:	OCC #:	OCC #:	OCC #:	OCC #:
OCC #:	OCC #:	OCC #:	OCC #:	OCC #:

Please fill out the above information and email the completed form as an attachment to MembershipServices@cboe.com.

Additional Information:

Questions related to the rules and related requirements may be directed to the Regulatory Division's Regulatory Interpretations and Guidance team. Questions regarding the submission of this form may be directed to the Membership Services Department.

Regulatory Interpretations
RegInterps@cboe.com
(312) 786-8141

Membership Services
MembershipServices@cboe.com
(913) 815-7002

Signature of Authorized Officer, Partner or Managing Member

Date

Print Name

Title

Exhibit M

Exhibit Request:

Provide an alphabetical list of all members, participants, subscribers or other users, including the following information:

1. Name,
2. Date of election to membership or acceptance as a participant, subscriber or other user,
3. Principal business address and telephone number,
4. If member, participant, subscriber or other user is an individual, the name of the entity with which such individual is associated and the relationship of such individual to the entity (e.g., partner, officer, director, employee, etc.),
5. Describe the type of activities primarily engaged in by the member, participant, subscriber, or other user (e.g., floor broker, specialist, odd lot dealer, other market maker, proprietary trader, non-broker dealer, inactive or other functions). A person shall be “primarily engaged” in an activity or function for purposes of this item when that activity or function is the one in which that person is engaged for the majority of their time. When more than one type of person at an entity engages in any of the six types of activities or functions enumerated in this item, identify each type (e.g., proprietary trader, Registered Competitive Trader and Registered Competitive Market Maker) and state the number of members, participants, subscribers, or other users in each, and
6. The class of membership, participation or subscription or other access.

Response:

Attached please find a list of the current Members and Sponsored Participants accepted as Users of the Exchange.

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	CBOE Effective Date	C2 Effective Date	Type of User	Address	Phone Number	Primary Activities
78 North Investments ApS	8/24/2020	8/24/2020	8/24/2020	8/24/2020	NA	NA	Sponsored Participant	Vimmelskaflet 43 3rd Floor Copenhagen Denmark 1161	45 88707858	Proprietary Trading
ABN AMRO Clearing Chicago LLC	10/15/2008	10/1/2010	5/25/2010	5/27/2010	5/13/1985	9/24/2010	Member TPH	175 W Jackson Boulevard Suite 400 Chicago, IL 60604	312-604-8000	Clearing, Transact Business with the Public, Brokerage
ACS Execution Services, LLC	1/15/2016	1/15/2016	1/15/2016	1/15/2016	NA	NA	Member TPH	12 Broad Street 2nd Floor Red Bank, NJ 07701	732-204-8999	Proprietary Trading
Agency Desk, LLC	7/1/2009	NA	NA	NA	NA	NA	Member TPH	590 Madison Avenue 21st Floor New York, NY 10022	212-935-9835	Market Maker
Akuna Securities LLC	9/15/2015	NA	NA	8/14/2017	2/2/2012	2/12/2015	Member TPH	333 S Wabash Avenue Suite 2600 Chicago, IL 60604	312-994-4640	Market Maker, Proprietary Trading
All Rise Trading LLC	NA	NA	NA	NA	8/14/2018	NA	Member TPH	141 W. Jackson Boulevard Suite 300A Chicago, IL 60604	312-483-2147	Floor Broker
Alpha Direct LLC	8/20/2015	8/20/2015	8/20/2015	8/20/2015	NA	NA	Sponsored Participant	533 2nd Street Encinitas, CA 92024	858-947-8650	Proprietary Trading
Alpha Trading, LP	10/24/2017	10/24/2017	10/24/2017	10/24/2017	NA	NA	Member TPH	640 W California Avenue Sunnyvale, CA 94086	408-990-1940	Market Maker, Proprietary Trading
Alpha Trading, LP	2/22/2019	2/22/2019	2/22/2019	2/22/2019	NA	NA	Sponsored Participant	640 W California Avenue Sunnyvale, CA 94086	408-990-1940	Market Maker, Proprietary Trading
Alpine Securities Corporation	11/3/2008	11/15/2010	NA	NA	NA	NA	Member TPH	39 Exchange Place Salt Lake City, UT 84111	801-355-5588	Agency
AMS Derivatives B.V.	8/14/2019	9/10/2019	9/10/2019	8/14/2019	12/1/2017	6/5/2019	Member TPH	Strawinskylaan 3095 Amsterdam, 1077ZX Netherlands	31-020-708-7000	Proprietary Trading
Apex Clearing Corporation	6/5/2012	6/5/2012	6/5/2012	6/5/2012	6/6/2012	6/6/2012	Member TPH	One Dallas Center 350 N St. Paul, Suite 1300 Dallas, TX 75201	214-765-1055	Clearing, Transact Business with the Public
Archipelago Securities LLC	8/18/2008	9/1/2010	5/25/2010	5/27/2010	NA	NA	Member TPH	353 N Clark Street Suite 3200 Chicago, IL 60654	312-836-6700	Limited Routing Facility of ICE affiliated Exchanges
Athena Capital Research, LLC	7/1/2009	10/20/2010	NA	NA	NA	NA	Sponsored Participant	440 9th Avenue 11th Floor New York, NY 10001	212-931-9056	Proprietary Trading
ATM Execution LLC dba Cowen Electronic	3/15/2012	3/15/2012	3/21/2012	3/21/2012	NA	NA	Member TPH	599 Lexington Avenue 21st Floor New York, NY 10022	646-562-1010	Public Customer Business
Axos Financial LLC	10/15/2009	NA	NA	NA	NA	NA	Member TPH	1200 Landmark Center 1299 Farnam Street Suite 800 Omaha, NE 68102	402-384-6100	Clearing Services
Barclays Capital Inc.	8/18/2008	10/1/2010	5/14/2010	5/14/2010	9/22/2008	10/6/2010	Member TPH	745 7th Avenue New York, NY 10019	212-526-7000	Clearing, Market Maker, Transact Business with the Public, Brokerage, Proprietary Trading
Bay Crest Partners, LLC	10/15/2008	NA	5/25/2010	5/27/2010	NA	NA	Member TPH	40 Wall Street 42nd Floor New York, NY 10005	212-480-1400	Agency
Belvedere Trading LLC	11/1/2011	3/1/2012	11/29/2011	10/16/2018	1/3/2005	4/4/2011	Member TPH	10 S Riverside Plaza Suite 2100 Chicago, IL 60606	312-893-3750	Market Maker, Proprietary Trading
BGC Financial, LP	8/17/2009	NA	NA	NA	NA	NA	Member TPH	One Seaport Plaza 19th Floor New York, NY 10038	646-346-7000	Agency
Black Edge Securities LLC	NA	NA	NA	NA	10/16/2020	NA	Member TPH	811 W. Fulton Market 400 Chicago, IL 60607	608-213-4825	Market Maker
Bluefin Capital Management, LLC	8/3/2009	6/1/2015	9/27/2013	8/13/2013	4/27/2009	NA	Member TPH	3 Park Avenue 37th Floor New York, NY 10016	212-457-9150	Market Maker, Proprietary Trading
BMO Capital Markets Corp.	8/18/2008	11/15/2010	7/15/2014	7/15/2014	10/8/2013	11/15/2013	Member TPH	3 Times Square New York, NY 10036	212-885-4000	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
BNP Paribas Securities Corp.	8/18/2008	9/15/2010	5/25/2010	5/27/2010	1/5/2005	10/15/2010	Member TPH	787 7th Avenue New York, NY 10019	212-841-2000	Clearing, Order Flow Provider, Proprietary Trading, Transact Business with the Public
BNY Mellon Capital Markets, LLC	NA	NA	NA	1/17/2017	NA	NA	Member TPH	101 Barclay Street New York, NY 10286	212-815-4972	Market Maker
Boerboel Capital LLC	11/17/2017	8/27/2019	8/27/2019	8/27/2019	2/1/2017	NA	Member TPH	300 N LaSalle Street Suite 2060 Chicago, IL 60654	708-967-6843	Market Maker
Boerboel Capital LLC	1/30/2019	1/30/2019	1/30/2019	1/30/2019	NA	NA	Sponsored Participant	300 N LaSalle Street Suite 2060 Chicago, IL 60654	708-967-6843	Market Maker
Boerboel Trading LP	10/15/2018	10/15/2018	10/15/2018	10/15/2018	NA	NA	Sponsored Participant	Maples Corporate Services PO Box 309, Uglan House Cayman Islands KY1-1104	#####	Proprietary Trading
BofA Securities, Inc.	9/19/2018	9/19/2018	9/19/2018	9/19/2018	5/13/2019	5/13/2019	Member TPH	One Bryant Park New York, NY 10036	201-671-5685	Clearing Services, Firm Proprietary Trading, Public Customer Business
BOLT-X LLC	8/18/2008	10/1/2010	5/25/2010	5/27/2010	1/2/2008	NA	Member TPH	350 N Orleans Street Suite 2N Chicago, IL 60654	312-244-5400	Order Flow Provider, Transact Business with the Public, Brokerage
BTIG, LLC	8/18/2008	11/15/2010	5/25/2010	5/27/2010	NA	NA	Member TPH	600 Montgomery Street 6th Floor San Francisco, CA 94111	415-248-2200	Market Maker
C&C Trading LLC	8/18/2008	10/11/2010	5/25/2010	5/27/2010	NA	NA	Member TPH	71 Arch Street 1st Floor Greenwich, CT 06830	212-706-1227	Proprietary Trading
Canaccord Genuity LLC	10/1/2013	10/1/2013	6/10/2010	6/10/2010	NA	NA	Member TPH	535 Madison Avenue New York, NY 10022	212-389-8000	Market Maker
Canadian Imperial Holdings, Inc.	10/15/2008	11/15/2010	NA	NA	NA	NA	Sponsored Participant	300 Madison Avenue 5th Floor New York, NY 10017	212-856-3877	Proprietary Trading
Cantor Fitzgerald & Co.	10/23/2008	2/13/2015	5/25/2010	5/27/2010	NA	NA	Member TPH	110 E 59th Street 4th Floor New York, NY 10022	212-938-5000	Agency, Institutional Trading
Capital Institutional Services, Inc.	8/18/2008	NA	5/25/2010	5/27/2010	NA	NA	Member TPH	1700 Pacific Avenue Suite 1100 Dallas, TX 75201	214-720-0055	Agency
Cardinal Capital Management, LLC	1/24/2019	NA	NA	NA	10/1/2007	NA	Member TPH	141 W Jackson Boulevard Suite 2200A Chicago, IL 60604	312-477-8400	Market Maker/Proprietary
Casey Securities LLC	NA	NA	NA	NA	8/3/2020	NA	Member TPH	One Montgomery Street Floor San Francisco, CA 94104	415-954-5590	Electronic Execution, Transact Business with the Public
Cboe Trading, Inc.	10/23/2008	9/1/2010	5/14/2010	5/14/2010	7/26/2019	4/18/2018	Member TPH	8050 Marshall Drive Suite 120 Lenexa, KS 66214	913-815-7000	Limited Routing Facility of Cboe affiliated Exchanges
CF Global Trading, LLC	10/23/2008	1/3/2011	NA	NA	NA	NA	Member TPH	60 E 42nd Street Suite 1455 New York, NY 10165	212-888-4711	Market Maker
Charles Schwab & Co., Inc.	NA	NA	NA	4/3/2017	NA	NA	Member TPH	211 Main Street San Francisco, CA 94105	415-636-7000	Clearing, Transact Business with the Public

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	CBOE Effective Date	C2 Effective Date	Type of User	Address	Phone Number	Primary Activities
Chimera Securities, LLC	11/17/2017	11/27/2017	11/27/2017	11/17/2017	NA	NA	Sponsored Participant	27 Union Square West 4th Floor New York, NY 10003	646-597-6145	Proprietary Trading
CIBC World Markets Corp.	8/18/2008	11/15/2010	NA	NA	2/14/1973	NA	Member TPH	425 Lexington Avenue New York, NY 10017	212-856-4000	Clearing, Transact Business with the Public
Citadel Securities LLC	10/23/2008	10/1/2010	5/14/2010	5/14/2010	4/17/2002	10/7/2010	Member TPH	131 S Dearborn Street 32nd Floor Chicago, IL 60603	312-395-2100	Market Maker, Order Flow Provider, Brokerage
Citigroup Derivatives Markets Inc.	2/15/2018	NA	NA	2/15/2018	12/3/2004	2/25/2011	Member TPH	130 Cheshire Lane Suite 102 Minnetonka, MN 55305	212-723-2960	Market Maker
Citigroup Global Markets Inc.	9/24/2008	12/15/2010	5/25/2010	5/27/2010	5/2/2011	6/3/2019	Member TPH	390-388 Greenwich Street New York, NY 10013	212-816-6000	Clearing, Proprietary Trading, Transact Business with the Public
Clarksons Platou Securities, Inc.	NA	NA	1/15/2015	NA	NA	NA	Member TPH	280 Park Avenue 21st Floor New York, NY 10017	212-317-7080	Public Customer Business
Clear Street Markets, LLC	7/16/2012	7/16/2012	8/20/2012	8/20/2012	6/6/2012	3/22/2019	Member TPH	55 Broadway Suite 2102 New York, NY 10006	646-738-4066	Market Maker, Proprietary Trading
Clear Street, LLC	3/18/2019	8/14/2019	8/14/2019	8/14/2019	NA	NA	Member TPH	55 Broadway Suite 2102 New York, NY 10006	646-738-4068	Public Customer Business, Clearing, Proprietary Trading
Clearpool Execution Services, LLC	5/15/2014	5/15/2014	6/16/2014	6/16/2014	NA	NA	Member TPH	17 State Street 38th Floor New York, NY 10004	212-531-8500	Public Customer Business
CMT Fund XXV Limited	7/2/2012	7/2/2012	NA	NA	NA	NA	Sponsored Participant	500 W Monroe Street Suite 2630 Chicago, IL 60661	312-320-7897	Agency
CODA Markets, Inc.	10/15/2008	10/4/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	2624 Patriot Boulevard Glenview, IL 60026	224-521-2700	ATS
Cognitive Capital, LLC	NA	NA	NA	NA	5/13/2004	NA	Member TPH	141 W Jackson Boulevard Suite 1620 Chicago, IL 60604	312-431-0400	Proprietary Trading
Comhar Capital Markets, LLC	2/27/2017	12/13/2019	12/13/2019	NA	NA	NA	Member TPH	311 S Wacker Drive Suite 2280A Chicago, IL 60606	872-205-0190	Proprietary Trading
Consolidated Trading, LLC	NA	NA	NA	NA	1/2/2002	NA	Member TPH	71 S Wacker Drive Suite 2300 Chicago, IL 60606	312-360-7300	Market Maker
Cowen and Company, LLC	8/18/2008	10/7/2010	5/14/2010	5/14/2010	NA	NA	Member TPH	599 Lexington Avenue 20th Floor New York, NY 10022	646-562-1010	Market Maker
Cowen Prime Services LLC	3/15/2011	3/15/2011	NA	NA	NA	NA	Member TPH	599 Lexington Avenue 21st Floor New York, NY 10022	646-562-1010	Public Customer Business, Proprietary Trading
Credit Suisse Securities (USA) LLC	9/3/2008	10/1/2010	5/25/2010	5/27/2010	8/14/1981	10/8/2010	Member TPH	11 Madison Avenue New York, NY 10010	212-325-2000	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
Critical Trading, LLC	7/1/2014	6/8/2018	NA	6/8/2018	NA	NA	Member TPH	120 W 45th Street 15th Floor New York, NY 10036	646-918-0529	Market Maker, Proprietary Trading
CSS, LLC	NA	NA	NA	NA	8/21/1998	NA	Member TPH	175 W Jackson Boulevard Suite 440 Chicago, IL 60604	312-542-8505	Proprietary Trading
CTC, LLC	3/15/2018	NA	NA	NA	3/25/1998	3/3/2011	Member TPH	440 S LaSalle Street 4th Floor Chicago, IL 60605	312-863-8000	Market Maker
Cutler Group, LP	4/1/2010	10/6/2010	NA	10/16/2015	4/5/1999	NA	Member TPH	101 Montgomery Street Suite 700 San Francisco, CA 94104	415-293-3956	Market Maker, Proprietary Trading
Dash Financial Technologies LLC	10/23/2008	7/2/2012	6/9/2010	6/9/2010	5/19/2000	9/30/2010	Member TPH	311 S Wacker Drive Suite 1000 Chicago, IL 60606	312-986-2006	Clearing, Floor Broker, Order Flow Provider, Transact Business with the Public, Brokerage
Deutsche Bank Securities Inc.	10/15/2008	10/11/2010	5/21/2010	5/21/2010	NA	NA	Member TPH	60 Wall Street New York, NY 10005	212-250-2500	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
DRW Commodities LLC	8/6/2020	8/6/2020	8/6/2020	8/6/2020	NA	NA	Sponsored Participant	540 W Madison Street Suite 2500 Chicago, IL 60661	312-542-1000	Proprietary Trading
DRW Europe B.V.	12/14/2020	12/14/2020	12/14/2020	12/14/2020	NA	NA	Sponsored Participant	540 W Madison Street Suite 2500 Chicago, IL 60661	44-207-031-1369	Proprietary Trading
DRW Execution Services, LLC	11/19/2019	11/19/2019	11/19/2019	11/19/2019	NA	NA	Member TPH	540 W Madison Street Suite 2500 Chicago, IL 60661	312-542-1090	Proprietary Trading
DRW Securities, LLC	9/1/2009	11/1/2010	5/25/2010	5/27/2010	11/23/1998	1/22/2016	Member TPH	540 W Madison Street Suite 2500 Chicago, IL 60661	312-542-1000	Market Maker, Proprietary Trading
DRW Singapore Ltd.	11/19/2018	NA	NA	11/19/2018	NA	NA	Sponsored Participant	8 Marina View Asia Square Tower 1 #32-05 Singapore 018960	312-542-1005	Proprietary Trading
DV Securities, LLC	NA	NA	NA	NA	9/28/2020	NA	Member TPH	216 W. Jackson Blvd., 3rd Floor, Chicago, IL 60606	312-837-0649	Market Maker, Proprietary Trading
Dynamic Technology Lab Pte. Ltd.	11/5/2018	11/5/2018	11/5/2018	11/5/2018	NA	NA	Sponsored Participant	07-00, 178 Clemenceau Avenue Singapore 239926	656-610-4693	Proprietary Trading
E D & F Man Capital Markets Inc.	NA	NA	NA	NA	3/1/2019	6/7/2019	Member TPH	140 E. 45th Street 10th Floor New York, NY 10017	212-618-2800	Clearing, Public Customer Business
E*TRADE Securities LLC	NA	NA	NA	6/10/2010	NA	NA	Member TPH	11 Times Square 32nd Floor New York, NY 10036	646-521-4300	Public Customer Business
Electronic Transaction Clearing, Inc.	10/23/2008	9/1/2010	5/25/2010	5/27/2010	NA	NA	Member TPH	660 S Figueroa Street Los Angeles, CA 90017	949-533-1885	Market Maker
Evercore Group LLC	NA	NA	5/10/2017	NA	NA	NA	Member TPH	55 E 52nd Street New York, NY 10055	212-857-3100	Public Customer Business
FIS Brokerage & Securities Services LLC	8/18/2008	10/1/2010	5/6/2010	5/6/2010	NA	NA	Member TPH	2100 Enterprise Avenue Geneva, IL 60134	630-482-7100	Agency
Flow Traders U.S. Institutional Trading LLC	NA	NA	6/1/2016	NA	NA	NA	Member TPH	114 Avenue of the Americas 4th Floor New York, NY 10036	917-210-5000	Riskless Principal
Flow Traders U.S. LLC	10/1/2009	8/1/2012	2/28/2014	2/28/2014	NA	NA	Member TPH	114 Avenue of the Americas 4th Floor New York, NY 10036	917-210-5000	Proprietary Trading
G1 Execution Services, LLC	8/18/2008	12/1/2010	4/17/2010	4/17/2010	NA	NA	Member TPH	175 W Jackson Boulevard Suite 1700 Chicago, IL 60604	312-362-0404	Market Maker
Gair Loch Enterprises Ltd.	2/22/2019	2/22/2019	4/8/2019	4/8/2019	NA	NA	Sponsored Participant	540 W. Madison Suite 2500 Chicago, IL 60661	312-542-1193	Proprietary Trading
Gair Loch Enterprises Ltd.	12/2/2019	12/2/2019	12/2/2019	12/2/2019	NA	NA	Sponsored Participant	540 W. Madison Suite 2500 Chicago, IL 60661	312-542-1193	Proprietary Trading
Geneva Stock, LLC	NA	NA	NA	NA	4/6/2001	NA	Member TPH	440 S LaSalle Street Suite 1711 Chicago, IL 60605	312-362-4404	Market Maker

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Global Execution Brokers, LP	2/1/2010	10/5/2010	12/1/2015	10/15/2015	12/23/2003	9/24/2010	Member TPH	401 City Avenue Bala Cynwyd, PA 19004	610-617-2600	Floor Broker, Transact Business with the Public, Brokerage
Goldman Sachs & Co. LLC	10/23/2008	10/12/2010	5/14/2010	5/14/2010	2/21/1973	10/8/2010	Member TPH	200 West Street New York, NY 10282	212-902-1000	Clearing, Market Maker, Proprietary Trading, Transact Business with the Public, Brokerage
Gordon, Haskett Capital Corporation	NA	NA	NA	5/2/2016	NA	NA	Member TPH	441 Lexington Avenue 10th Floor New York, NY 10017	212-883-0600	Agency, Institutional Trading
Great Point Capital LLC	10/27/2020	10/27/2020	10/27/2020	10/27/2020	NA	NA	Sponsored Participant	200 W. Jackson Blvd. Suite 1000 Chicago, IL 60606	312-356-4401	Proprietary Trading
Group One Trading, LP	6/2/2015	NA	NA	9/29/2015	11/23/1994	9/11/2020	Member TPH	425 S Financial Place Suite 3400 Chicago, IL 60605	312-347-8864	Market Maker, Proprietary Trading
GTS Securities LLC	12/17/2013	5/1/2012	6/2/2014	6/2/2014	11/29/2019	2/25/2020	Member TPH	545 Madison Avenue 15th Floor New York, NY 10022	212-715-2830	Market Maker, Proprietary Trading
Hainey Investments Limited	6/16/2014	NA	NA	NA	NA	NA	Sponsored Participant	Themistoki Dervi 41 #806-807 Nicosia, Cyprus	704-248-8221	Proprietary Trading
HAP Trading LLC	10/1/2009	11/15/2010	NA	6/2/2010	3/16/2001	NA	Member TPH	395 Hudson Street Suite 701 New York, NY 10014	212-380-5100	Market Maker, Proprietary Trading
HAP Trading LLC	1/8/2020	1/8/2020	1/8/2020	1/8/2020	NA	NA	Sponsored Participant	395 Hudson Street Suite 701 New York, NY 10014	212-380-5100	Proprietary Trading
Headlands Technologies LLC	10/15/2018	10/15/2018	10/15/2018	10/15/2018	NA	NA	Sponsored Participant	155 N. Wacker Drive, Suite 1900 Chicago, IL 60606	312-601-8649	Proprietary Trading
Hehmeyer, LLC	10/3/2016	10/3/2016	10/3/2016	10/3/2016	NA	NA	Sponsored Participant	601 S LaSalle Street 2nd Floor Chicago, IL 60605	312-327-4112	Proprietary Trading
Henning-Carey Proprietary Trading, LLC	8/15/2012	NA	NA	NA	NA	NA	Sponsored Participant	141 W Jackson Boulevard Suite 1801 Chicago, IL 60604	312-789-8764	Proprietary Trading
Highbridge Capital Management, LLC	10/23/2008	NA	NA	NA	NA	NA	Sponsored Participant	9 West 57th Street 27th Floor New York, NY 10019	212-287-4900	Proprietary Trading
Hilltop Securities Inc.	10/23/2008	9/1/2010	NA	5/21/2013	10/1/2010	NA	Member TPH	1201 Elm Street Suite 3500 Dallas, TX 75270	214-859-1800	Clearing, Transact Business with the Public
HRT Financial LP	2/1/2010	10/1/2010	5/18/2010	5/18/2010	1/24/2011	1/24/2011	Member TPH	4 World Trade Center 150 Greenwich Street, 57th Floor New York, NY 10007	212-293-1444	Proprietary Trading
HSBC Securities (USA) Inc.	4/3/2017	4/3/2017	4/3/2017	4/3/2017	11/21/2005	NA	Member TPH	452 Fifth Avenue New York, NY 10018	224-880-7116	Clearing, Transact Business with the Public
IEX Services LLC	10/1/2013	10/1/2013	9/24/2013	9/24/2013	NA	NA	Member TPH	4 World Trade Center 44th Floor New York, NY 10007	646-343-2000	Limited Routing Facility of IEX affiliated Exchanges
IMC-Chicago LLC dba IMC Financial Markets	8/18/2008	10/1/2010	5/25/2010	5/27/2010	7/5/2000	9/24/2010	Member TPH	233 S Wacker Drive Suite 4300 Chicago, IL 60606	312-244-3300	Market Maker, Proprietary Trading
IMC-Chicago LLC dba IMC Financial Markets	11/5/2018	11/5/2018	11/5/2018	11/5/2018	NA	NA	Sponsored Participant	233 S Wacker Drive Suite 4300 Chicago, IL 60606	312-244-3300	Market Maker, Proprietary Trading
Industrial and Commercial Bank of China Financial Services LLC	5/15/2014	5/15/2014	NA	NA	NA	NA	Member TPH	1633 Broadway 28th Floor New York, NY 10019	212-993-7300	Clearing Services
Instinet LLC	8/18/2008	9/1/2010	5/14/2010	5/14/2010	12/29/2009	10/6/2010	Member TPH	Worldwide Plaza 309 W 49th Street New York, NY 10019	212-310-9500	Clearing, Transact Business with the Public, Brokerage
Interactive Brokers Corp.	NA	NA	NA	NA	4/21/2009	10/6/2010	Member TPH	8 Greenwich Office Park Greenwich, CT 06831	203-618-5700	Floor Broker, Brokerage
Interactive Brokers LLC	8/18/2008	9/15/2010	5/25/2010	5/27/2010	NA	NA	Member TPH	One Pickwick Plaza 2nd Floor Greenwich, CT 06830	203-618-5710	Full Service
J.P. Morgan Securities LLC	8/18/2008	9/15/2010	5/14/2010	5/14/2010	10/29/1985	11/18/2010	Member TPH	383 Madison Avenue New York, NY 10179	212-272-2000	Clearing, Transact Business with the Public
Jane Street Capital, LLC	5/1/2009	11/15/2010	5/14/2010	5/14/2010	9/4/2012	1/2/2019	Member TPH	250 Vesey Street 5th Floor New York, NY 10281	646-759-6000	Market Maker, Proprietary Trading
Jane Street Execution Services LLC	1/24/2019	1/24/2019	1/24/2019	1/24/2019	NA	NA	Member TPH	250 Vesey Street 6th Floor New York, NY 10281	646-759-6381	Proprietary Trading
Jane Street Options, LLC	4/15/2016	NA	NA	11/9/2018	5/2/2005	1/2/2019	Member TPH	250 Vesey Street 5th Floor New York, NY 10281	646-759-6000	Market Maker
Jefferies Investment Advisers	7/1/2011	7/15/2011	NA	NA	NA	NA	Sponsored Participant	520 Madison Avenue New York, NY 10022	212-323-3993	Full Service
Jefferies LLC	10/23/2008	10/19/2010	5/25/2010	5/27/2010	7/9/2012	7/18/2012	Member TPH	520 Madison Avenue New York, NY 10022	212-284-2300	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
JNK Securities Corp.	11/17/2008	11/15/2010	NA	NA	NA	NA	Member TPH	140 E 45th Street 27th Floor New York, NY 10017	212-885-6300	Agency
Juliet Group, LLC	3/1/2011	3/1/2011	NA	NA	NA	NA	Sponsored Participant	240 E 35th Street #3A New York, NY 10016	646-360-0595	Proprietary Trading
Juliet Labs, LLC	9/20/2017	9/20/2017	9/20/2017	9/20/2017	NA	NA	Sponsored Participant	1 Northside Piers Suite 14H Brooklyn, NY 11249	646-360-0595	Proprietary Trading
Jump Trading, LLC	8/18/2008	10/1/2010	5/14/2010	5/14/2010	4/2/2012	NA	Member TPH	600 W Chicago Avenue Suite 825 Chicago, IL 60654	312-205-8900	Market Maker, Proprietary Trading
Keefe, Bruyette & Woods, Inc.	8/18/2008	12/1/2010	6/8/2010	6/8/2010	NA	NA	Member TPH	787 7th Avenue New York, NY 10019	212-887-7777	Agency
Lakeshore Securities, LP	NA	NA	NA	NA	1/24/1983	NA	Member TPH	401 S LaSalle Street Suite 1000 Chicago, IL 60605	312-663-1307	Clearing, Floor Broker, Market Maker, Transact Business with the Public
Lamberson Capital LLC	NA	NA	NA	NA	3/23/2016	NA	Member TPH	71 S Wacker Drive Suite 2300 Chicago, IL 60606	312-360-7300	Market Maker
Lampert Capital Markets Inc.	NA	2/18/2014	2/26/2014	NA	NA	NA	Member TPH	444 Madison Avenue Suite 401 New York, NY 10022	646-833-4900	Introducing Broker
Lampost Capital LC	NA	NA	NA	1/19/2021	NA	NA	Member TPH	1900 Glades Road Suite 205 Boca Raton, FL 33431	561-883-0454	Wholesale Execution
Latour Trading LLC	8/17/2009	10/1/2010	5/26/2010	5/27/2010	4/8/2011	NA	Member TPH	377 Broadway 10th Floor New York, NY 10013	917-388-8000	Proprietary Trading
LEK Securities Corporation	8/18/2008	10/1/2010	5/26/2010	5/27/2010	1/9/2001	9/24/2010	Member TPH	1 Liberty Plaza 165 Broadway, 52nd Floor New York, NY 10006	212-509-2300	Clearing, Transact Business with the Public
Lightspeed Financial Services Group LLC	8/18/2008	10/1/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	1001 Avenue of the Americas 16th Floor New York, NY 10018	212-824-5000	Transact Business with the Public

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Liquidnet, Inc.	9/1/2009	NA	NA	NA	NA	NA	Member TPH	498 7th Avenue 15th Floor New York, NY 10018	646-674-2000	Agency
Macquarie Capital (USA) Inc.	12/1/2009	NA	5/26/2010	5/27/2010	NA	NA	Member TPH	125 W 55th Street Level 22 New York, NY 10019	212-231-1000	Agency
Marathon Trading Group LLC	2/13/2015	NA	NA	NA	1/30/2013	NA	Member TPH	100 Matsonford Road Building 2, Suite 107 Wayne, PA 19087	610-254-4890	Market Maker, Proprietary Trading
Matrix Executions, LLC	8/18/2008	11/15/2010	NA	11/12/2015	2/1/2008	10/26/2010	Member TPH	601 S LaSalle Street Suite 300 Chicago, IL 60605	312-334-8000	Transact Business with the Public, Brokerage
MEMX Execution Services LLC	8/21/2020	8/21/2020	8/21/2020	8/21/2020	NA	NA	Member TPH	111 Town Square Place Suite 520 Jersey City, NJ 07310	551-370-1006	Affiliate routing Broker-Dealer
Merrill Lynch Professional Clearing Corp.	8/18/2008	10/5/2010	5/14/2010	5/14/2010	4/8/1985	9/24/2010	Member TPH	One Bryant Park, 6th Floor NY1-100-06-01 New York, NY 10036	646-743-1295	Clearing, Brokerage, Transact Business with the Public
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8/18/2008	10/4/2010	5/14/2010	5/14/2010	4/25/1973	NA	Member TPH	One Bryant Park New York, NY 10036	800-637-7455	Clearing, Transact Business with the Public, Brokerage, Market Maker, Proprietary Trading
Mint Global Markets, Inc.	NA	NA	5/26/2010	5/27/2010	NA	NA	Member TPH	1717 Route 6 Suite 102 Carmel, NY 10512	800-874-3039	Agency
Mizuho Securities USA, LLC	6/1/2010	1/3/2011	NA	NA	NA	NA	Member TPH	320 Park Avenue 12th Floor New York, NY 10022	212-209-9300	Agency
MKM Partners LLC	8/3/2009	NA	5/14/2010	5/14/2010	NA	NA	Member TPH	300 First Stamford Place 4th Floor East Wing Stamford, CT 06902	203-861-9060	Agency
Morgan Stanley & Co. LLC	10/23/2008	9/1/2010	5/14/2010	5/14/2010	8/20/1980	9/24/2010	Member TPH	1585 Broadway New York, NY 10036	212-761-4000	Clearing, Market Maker, Proprietary Trading, Transact Business with the Public, Brokerage
Nasdaq Execution Services, LLC	8/19/2008	9/1/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	One Liberty Plaza 165 Broadway New York, NY 10006	212-231-5100	Limited Routing Facility of Nasdaq affiliated Exchanges
National Financial Services LLC	10/23/2008	10/4/2010	5/26/2010	5/27/2010	10/8/1987	4/16/2012	Member TPH	200 Seaport Boulevard Boston, MA 02210	617-563-7000	Clearing, Floor Broker, Transact Business with the Public
National Securities Corporation	7/1/2009	NA	NA	NA	NA	NA	Member TPH	One Union Square 600 University Street, Suite 2900 Seattle, WA 98101	206-622-7200	Agency
Needham & Company, LLC	10/23/2008	10/1/2010	NA	NA	NA	NA	Member TPH	445 Park Avenue New York, NY 10022	212-371-8300	Market Maker
Nomura Securities International, Inc.	10/23/2008	10/1/2010	5/26/2010	5/27/2010	9/1/2009	11/16/2010	Member TPH	Worldwide Plaza 309 W 49th Street New York, NY 10019	212-667-9000	Clearing, Transact Business with the Public, Proprietary Trading
Old Mission Capital, LLC	4/16/2012	4/16/2012	4/25/2012	4/25/2012	9/27/2017	NA	Member TPH	314 W Superior Suite 200 Chicago, IL 60654	312-260-3031	Market Maker
Old Mission Markets LLC	NA	NA	12/13/2019	NA	NA	NA	Member TPH	314 W Superior Suite 200 Chicago, IL 60654	312-260-3044	Public Customer Business
Olivetree Financial, LLC	NA	NA	9/1/2016	NA	NA	NA	Member TPH	420 Lexington Avenue Suite 800 New York, NY 10170	646-930-6600	Agency
Oppenheimer & Co. Inc.	NA	NA	NA	NA	5/17/1973	NA	Member TPH	85 Broad Street 22nd, 24th Floors New York, NY 10004	212-668-8000	Clearing, Transact Business with the Public
Optiver US, LLC	6/15/2009	NA	NA	5/30/2018	6/1/2005	9/24/2010	Member TPH	130 E Randolph Street 14th Floor Chicago, IL 60601	312-821-9500	Market Maker
Oscar Gruss & Son Incorporated	8/7/2017	NA	NA	NA	NA	NA	Member TPH	430 Park Avenue 6th Floor New York, NY 10022	212-419-4000	Agency
PEAK6 Capital Management LLC	8/1/2014	NA	NA	2/1/2016	12/2/1997	NA	Member TPH	141 W Jackson Boulevard Suite 500 Chicago, IL 60604	312-444-8000	Proprietary Trading
Pershing LLC	8/18/2008	9/15/2010	5/26/2010	5/27/2010	2/21/1973	9/28/2010	Member TPH	One Pershing Plaza Jersey City, NJ 07399	201-413-2000	Clearing, Transact Business with the Public
Phillip Capital Inc.	NA	NA	NA	11/27/2017	NA	NA	Member TPH	141 W Jackson Boulevard Suite 3050 Chicago, IL 60604	312-356-9001	Clearing Services
Pictet Overseas Inc.	6/1/2015	6/1/2015	5/26/2010	5/27/2010	NA	NA	Member TPH	1000 de la Gauchetiere West Suite 3100 Montreal, Quebec H3B 4W5	514-288-8161	Agency
Piper Sandler & Co.	10/15/2008	11/15/2012	5/14/2010	5/14/2010	NA	NA	Member TPH	800 Nicollet Mall Minneapolis, MN 55402	612-303-6000	Market Maker
Princeton Alpha Management, LP	12/1/2015	12/1/2015	12/1/2015	12/1/2015	NA	NA	Sponsored Participant	61 Princeton Hightstown Road West Windsor, NJ 08550	609-269-9212	Agency
Puma Capital, LLC	NA	NA	6/15/2016	6/15/2016	NA	NA	Member TPH	287 Bowman Avenue 3rd Floor Purchase, NY 10577	212-269-4100	Market Maker, Proprietary Trading
Pundion LLC	2/27/2017	2/27/2017	2/27/2017	2/27/2017	NA	NA	Member TPH	230 Park Avenue 10th Floor New York, NY 10169	718-618-4929	Proprietary Trading
Pundion LLC	10/15/2018	10/15/2018	10/15/2018	10/15/2018	NA	NA	Sponsored Participant	230 Park Avenue 10th Floor New York, NY 10169	718-618-4929	Proprietary Trading
Quantbot Technologies LP	3/27/2018	3/27/2018	3/27/2018	3/27/2018	NA	NA	Sponsored Participant	369 Lexington Avenue New York, NY 10017	212-622-6510	Proprietary Trading
Quantlab Brokerage, LLC	12/9/2019	12/9/2019	12/9/2019	12/9/2019	NA	NA	Member TPH	3 Greenway Plaza Suite 200 Houston, TX 77046	713-333-3704	Public Customer Business
Quiet Light Securities, LLC	NA	NA	NA	NA	5/1/2001	NA	Member TPH	141 W Jackson Boulevard Suite 2020A Chicago, IL 60604	312-431-0573	Market Maker, Proprietary Trading
R.W. Pressprich & Co.	2/17/2009	11/15/2010	6/2/2010	6/2/2010	NA	NA	Member TPH	452 5th Avenue New York, NY 10018	212-832-6200	Agency
Rackson Asset Management, LLC	10/1/2009	NA	NA	NA	NA	NA	Sponsored Participant	2000 Broadway Suite 22C New York, NY 10023	212-724-2567	Proprietary Trading
Radix Trading LLC	11/5/2018	11/5/2018	11/5/2018	11/5/2018	NA	NA	Sponsored Participant	353 N Clark Street Suite 3200 Chicago, IL 60654	773-377-8080	Research Firm
Rainier Investment Management, Inc.	1/4/2010	NA	NA	NA	NA	NA	Sponsored Participant	601 Union Street Suite 2801 Seattle, WA 98101	206-518-6658	Hedge Fund
RBC Capital Markets, LLC	9/18/2008	10/14/2010	5/14/2010	5/14/2010	11/24/1993	10/19/2010	Member TPH	3 World Financial Center 200 Vesey Street New York, NY 10281	212-858-7000	Clearing, Proprietary Trading, Transact Business with the Public
Robert W. Baird & Co. Incorporated	10/23/2008	1/3/2011	NA	NA	NA	NA	Member TPH	777 E Wisconsin Avenue Milwaukee, WI 53202	414-765-3500	Market Maker
Rosenblatt Securities Inc.	8/18/2008	10/6/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	40 Wall Street 59th Floor New York, NY 10005	212-607-3100	Agency

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Roth Capital Partners, LLC	8/18/2008	NA	NA	NA	NA	NA	Member TPH	888 San Clemente Suite 400 Newport Beach, CA 92660	949-720-5700	Market Maker
SAC Capital Advisors, LP	10/23/2008	NA	NA	NA	NA	NA	Sponsored Participant	72 Cummings Point Road Stamford, CT 06902	203-890-2275	Hedge Fund
Safra Securities LLC	NA	NA	5/26/2010	5/27/2010	NA	NA	Member TPH	546 5th Avenue New York, NY 10036	212-704-5500	Market Maker
SageTrader, LLC	3/1/2016	6/5/2017	6/5/2017	6/1/2016	NA	NA	Member TPH	340 Pine Street Suite 501 San Francisco, CA 94104	415-293-3894	Public Customer Business
SAL Equity Trading, GP	9/3/2008	10/5/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-3000	Agency, Institutional Trading
Sanford C. Bernstein & Co, LLC	9/10/2008	10/21/2010	5/26/2010	5/27/2010	8/13/2013	NA	Member TPH	1345 Avenue of the Americas New York, NY 10105	212-969-1000	Clearing, Proprietary Trading, Transact Business with the Public
Santander Investment Securities Inc.	4/15/2009	1/3/2011	NA	NA	NA	NA	Member TPH	45 E 53rd Street New York, NY 10022	212-350-3500	Institutional Trading
Score Priority Corp	8/18/2020	8/18/2020	8/18/2020	8/18/2020	NA	NA	Member TPH	1 Penn Plaza, 16th Floor New York, NY 10119	310-947-9044	Public Customer Business
Scotia Capital (USA) Inc.	3/2/2009	9/15/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	250 Vesey Street New York, NY 10281	212-225-6500	Institutional Trading
Sea Otter Securities Group LLC	10/9/2018	10/9/2018	NA	10/9/2018	NA	NA	Sponsored Participant	107 Grand Street 7th Floor New York, NY 10013	646-762-9972	Proprietary Trading
SG Americas Securities, LLC	9/17/2008	11/15/2011	5/14/2010	5/14/2010	4/23/2004	1/2/2015	Member TPH	245 Park Avenue New York, NY 10167	212-278-6000	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
Simplex Trading, LLC	3/16/2015	NA	NA	4/13/2017	8/12/2010	3/1/2017	Member TPH	230 S LaSalle Street Suite 4-100 Chicago, IL 60604	312-360-2440	Market Maker, Proprietary Trading
SMBC Nikko Securities America, Inc.	8/7/2017	8/7/2017	8/7/2017	8/7/2017	NA	NA	Member TPH	277 Park Avenue 5th Floor New York, NY 10172	212-224-5039	Institutional Trading
SogoTrade, Inc.	NA	NA	NA	6/19/2017	NA	NA	Member TPH	11 Broadway Suite 514 New York, NY 10004	646-885-6486	Public Customer Business
Southern Trust Securities Inc.	2/19/2020	2/19/2020	2/19/2020	2/19/2020	NA	NA	Member TPH	2307 Douglas Road, Suite 301 Miami, FL 33145	631-804-0396	Public Customer Business
Squarepoint Ops LLC	6/12/2020	6/12/2020	6/12/2020	6/12/2020	NA	NA	Sponsored Participant	250 W 55th Street 32nd Floor New York, NY 10019	646-868-1508	Proprietary Trading
SRT Securities LLC	NA	5/18/2020	NA	NA	10/27/1995	9/24/2010	Member TPH	666 5th Avenue 14th Floor New York, NY 10103	212-841-4567	Floor Broker, Transact Business with the Public, Brokerage
Stifel, Nicolaus & Company, Incorporated	8/18/2008	NA	6/2/2010	6/2/2010	NA	NA	Member TPH	501 N Broadway St. Louis, MO 63102	314-342-2000	Agency
Sumo Captial, LLC	7/15/2013	NA	NA	10/15/2015	3/3/2008	NA	Member TPH	440 S LaSalle Street Suite 2101 Chicago, IL 60605	312-324-0326	Market Maker, Proprietary Trading
SumRidge Partners, LLC	NA	NA	NA	12/27/2017	NA	NA	Member TPH	111 Town Square Place Suite 320 Jersey City, NJ 07310	201-898-2520	Proprietary Trading
Susquehanna Financial Group, LLLP	9/3/2008	10/5/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	800-825-9550	Agency, Institutional Trading
Susquehanna Investment Group	NA	NA	NA	NA	5/1/1987	NA	Member TPH	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-2600	Market Maker
Susquehanna Securities, LLC	10/15/2014	10/15/2014	10/15/2014	10/15/2014	4/4/1994	9/24/2010	Member TPH	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-2600	Market Maker, Proprietary Trading
SVB Leerink LLC	8/18/2008	10/5/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	1 Federal Street 37th Floor Boston, MA 02110	617-918-4900	Agency
TD Ameritrade Clearing, Inc.	5/3/2011	5/3/2011	NA	5/27/2010	NA	NA	Member TPH	200 S 108th Avenue Omaha, NE 68154	800-669-3900	Public Customer Business, Clearing Services
Telsey Advisory Group, LLC	1/24/2011	8/15/2014	NA	NA	NA	NA	Member TPH	555 5th Avenue 7th Floor New York, NY 10017	212-973-9700	Public Customer Business
Tewksbury Investment Fund, Ltd.	7/1/2011	7/1/2011	1/6/2015	1/6/2015	NA	NA	Sponsored Participant	Washington Mall I 20th Church Street, 4th Floor Hamilton, HM 11 Bermuda	610-971-5000	Proprietary Trading
Tewksbury Investment Fund, Ltd.	10/23/2008	11/15/2010	NA	NA	NA	NA	Sponsored Participant	Washington Mall I 20th Church Street, 4th Floor Hamilton, HM 11 Bermuda	212-310-7076	Proprietary Trading
Themis Trading LLC	8/18/2008	10/1/2010	NA	NA	NA	NA	Member TPH	10 Town Square Suite 100 Chatham, NJ 07928	973-665-9600	Agency
ThinkTrade, LLC	2/1/2010	10/20/2010	1/9/2015	1/9/2015	NA	NA	Sponsored Participant	2210 Encintas Boulevard Suite 1 Encintas, CA 92024	760-452-2451	Proprietary Trading
Timber Hill LLC	NA	NA	NA	NA	12/27/1996	12/15/2010	Member TPH	One Pickwick Plaza Suite 200 Greenwich, CT 06830	203-618-5800	Clearing, Market Maker
TJM Investments, LLC	NA	NA	NA	NA	3/11/2013	NA	Member TPH	318 W Adams Street 9th Floor Chicago, IL 60606	312-432-5100	Floor Broker, Transact Business with the Public
Tradebot Systems, Inc.	8/18/2008	9/1/2010	5/26/2010	5/27/2010	NA	NA	Member TPH	1251 NW Briarcliff Parkway Suite 700 Kansas City, MO 64116	816-285-6400	Proprietary Trading
TradeStation Securities, Inc.	8/18/2008	9/1/2010	5/25/2010	5/25/2010	NA	NA	Member TPH	8050 SW 10th Street Suite 2000 Plantation, FL 33324	954-652-7900	Market Maker
TRC Helepolis, Ltd.	12/11/2009	NA	NA	NA	NA	NA	Sponsored Participant	377 Broadway 11th Floor New York, NY 10013	646-472-1792	Proprietary Trading
TRC Markets LLC	4/13/2017	4/13/2017	4/13/2017	4/13/2017	NA	NA	Member TPH	710 Johnnie Dodds Boulevard Suite 300 Mt. Pleasant, SC 29464	917-388-8644	Agency
Tudor, Pickering, Holt & Co. Securities, Inc.	8/18/2008	10/17/2011	NA	NA	NA	NA	Member TPH	1111 Bagby Suite 4900 Houston, TX 77002	713-333-7100	Agency
Two Sigma Investments, LLC	9/1/2009	NA	NA	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	212-775-6678	Proprietary Trading
Two Sigma Partners Master Fund, Ltd.	3/2/2009	NA	NA	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	212-775-6678	Proprietary Trading
Two Sigma Securities, LLC	7/1/2009	NA	NA	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	646-292-6643	Proprietary Trading
Two Sigma Securities, LLC	10/1/2009	10/5/2010	5/27/2010	5/27/2010	9/15/2017	7/18/2018	Member TPH	100 Avenue of the Americas 19th Floor New York, NY 10013	212-625-5700	Market Maker, Broker

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	CBOE Effective Date	C2 Effective Date	Type of User	Address	Phone Number	Primary Activities
UBS Financial Services Inc.	NA	NA	NA	NA	12/11/1972	NA	Member TPH	1200 Harbor Boulevard Weehawken, NJ 07086	201-352-3000	Clearing, Transact Business with the Public
UBS Securities LLC	10/15/2008	10/1/2010	4/12/2010	4/12/2010	10/1/1998	10/8/2010	Member TPH	1285 Avenue of the Americas New York, NY 10019	203-719-3000	Clearing, Proprietary Trading, Transact Business with the Public
Ultraviolet Securities LLC	6/17/2019	6/17/2019	6/17/2019	6/17/2019	NA	NA	Sponsored Participant	151 Bodman Place Suite 301 Red Bank, NJ 07701	732-450-7462	Proprietary Trading
Ultraviolet Securities LLC	10/24/2019	10/24/2019	10/24/2019	10/24/2019	NA	NA	Sponsored Participant	151 Bodman Place Suite 301 Red Bank, NJ 07701	732-450-7462	Proprietary Trading
Ustocktrade Securities, Inc.	4/17/2015	NA	NA	NA	NA	NA	Member TPH	275 Grove Street Suite 2-400 Newton, MA 02466	617-340-3041	Public Customer Business, Proprietary Trading
Velocity Clearing, LLC	10/3/2011	12/27/2011	5/17/2011	5/17/2011	NA	NA	Member TPH	70 Hudson Street Hoboken, NJ 07030	201-706-7157	Clearing Services
Velox Clearing LLC	9/5/2019	9/5/2019	9/5/2019	9/5/2019	NA	NA	Member TPH	2400 E. Katella Ave Suite 725 Anaheim, CA 92806	949-352-4694	Clearing Services
Verition Fund Management LLC	10/21/2019	10/21/2019	10/21/2019	10/21/2019	NA	NA	Sponsored Participant	1 American Lane Greenwich, CT 06831	203-742-7711	Proprietary Trading
ViewTrade Securities, Inc.	8/18/2008	11/15/2010	6/10/2010	6/10/2010	NA	NA	Member TPH	7280 W Palmetto Park Road Suite 310 Boca Raton, FL 33433	561-620-0306	Agency
Virtu Americas LLC	9/15/2009	10/14/2010	1/3/2011	1/3/2011	9/18/2009	3/17/2011	Member TPH	300 Vesey Street New York, NY 10282	646-682-6000	Clearing, Proprietary Trading, Transact Business with the Public, Brokerage
Vision Financial Markets LLC	4/1/2009	11/15/2010	7/13/2012	7/13/2012	12/11/2006	NA	Member TPH	120 Long Ridge Road 3 North Stamford, CT 06902	203-388-2700	Clearing, Transact Business with the Public
Volant Execution, LLC	6/15/2011	NA	NA	10/1/2015	4/12/2005	9/24/2010	Member TPH	111 W Jackson Boulevard 20th Floor Chicago, IL 60604	312-692-5000	Clearing, Brokerage
Volant Liquidity, LLC	4/15/2011	NA	5/27/2010	5/27/2010	2/1/2010	3/23/2011	Member TPH	250 Vesey Street Suite 2601 New York, NY 10281	646-804-7900	Market Maker, Order Flow Provider, Brokerage
Wall Street Access	11/3/2008	10/17/2011	5/27/2010	5/27/2010	NA	NA	Member TPH	17 Battery Place 11th Floor New York, NY 10004	212-709-9400	Agency
Walleye Trading LLC	12/1/2008	11/12/2010	NA	4/17/2018	6/1/2006	NA	Member TPH	2800 Niagara Lane North Plymouth, MN 55447	952-345-6611	Market Maker
Wedbush Securities Inc.	8/18/2008	9/1/2010	5/27/2010	5/27/2010	2/23/2012	3/8/2012	Member TPH	1000 Wilshire Boulevard Suite 900 Los Angeles, CA 90017	213-688-8090	Clearing
Wells Fargo Clearing Services, LLC	7/1/2016	NA	NA	NA	11/14/2016	NA	Member TPH	One N Jefferson Avenue Mail Code: H0004-050 St. Louis, MO 63103	314-875-3000	Clearing, Transact Business with the Public
Wells Fargo Securities, LLC	8/18/2008	10/11/2010	6/9/2010	6/9/2010	4/1/2014	4/1/2014	Member TPH	550 S Tryon Street, 6th Floor D1086-060 Charlotte, NC 28202	704-410-1913	Clearing, Proprietary Trading
Wolverine Execution Services, LLC	8/18/2008	10/19/2010	5/14/2010	5/14/2010	3/1/2006	9/24/2010	Member TPH	175 W Jackson Boulevard Suite 200 Chicago, IL 60604	312-884-4000	Clearing, Floor Broker, Transact Business with the Public, Brokerage
Wolverine Securities, LLC	NA	NA	NA	5/31/2017	NA	NA	Member TPH	175 W Jackson Boulevard Suite 200 Chicago, IL 60604	312-884-4000	Market Maker
Wolverine Trading, LLC	10/3/2011	NA	NA	10/1/2015	7/12/1994	9/24/2010	Member TPH	175 W Jackson Boulevard Suite 200 Chicago, IL 60604	312-884-4000	Market Maker, Proprietary Trading
X-Change Financial Access, LLC	NA	NA	NA	NA	5/1/2003	NA	Member TPH	440 S LaSalle Street Suite 2900 Chicago, IL 60605	312-235-0320	Clearing, Floor Broker, Transact Business with the Public
XR Securities LLC	1/15/2009	11/15/2010	5/10/2012	5/10/2012	11/30/2007	NA	Member TPH	550 W Jackson Boulevard Suite 1000 Chicago, IL 60661	312-244-4712	Market Maker, Proprietary Trading
XR Securities LLC	10/10/2019	10/10/2019	10/10/2019	10/10/2019	NA	NA	Sponsored Participant	550 W Jackson Boulevard Suite 1000 Chicago, IL 60661	312-244-4712	Market Maker, Proprietary Trading
XTX Markets LLC	8/18/2020	8/18/2020	8/18/2020	8/18/2020	NA	NA	Sponsored Participant	10 Hudson Yards 40th Floor New York, NY 10001	212-660-9930	Proprietary Trading