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) 03/10/17	OFFICIAL USE ONLY

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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.

INTENTIONAL MISSTATEMENTS OR OMISSIONS OF FACTS
MAY CONSTITUTE CRIMINAL VIOLATIONS

SEC Mail Processing Section MAR 13 2017 Washington DC 412

☐ APPLICATION ☒ AMENDMENT

1. State the name of the applicant: Bats BYX Exchange, Inc.

2. Provide the applicant's primary street address (Do not use a P.O. Box):
8050 Marshall Dr., Suite 120
Lenexa, Kansas 66214

3. Provide the applicant's mailing address (if different):

4. Provide the business telephone and facsimile number:
(913) 815-7000 (Telephone) (913) 815-7119 (Facsimile)

5. Provide the name, title and telephone number of a contact employee:
Eric Swanson (Name) General Counsel, Bats BYX Exchange, Inc. (Title) (212) 378-8520 (Telephone Number)

6. Provide the name and address of counsel for the applicant:
Eric Swanson
14 Wall Street
New York, NY 10005

7. Provide the date that applicant's fiscal year ends: December 31

8. Indicate legal status of the applicant: X Corporation ____ Sole Partnership ____ Partnership ____ Limited Liability Company ____ Other (specify): ____

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): 7/30/09 (b) State/Country of formation: Delaware/United States of America
(c) Statute under which applicant was organized: General Corporation Law of the State of Delaware

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.

Date: 03/10/17 (MM/DD/YY)
Bats BYX Exchange, Inc. (Name of Applicant)
By: [signature] (Signature)
Anders Franzon, SVP, Associate General Counsel (Printed Name and Title)
Subscribed and sworn before me this 10th day of March (Month), 2019 (Year) by Susan Xouris (Notary Public)
My Commission expires 8/4/19 County of Johnson State of Kansas

This page must always be completed in full with original, manual signature and notarization.
Affix notary stamp or seal where applicable.

NOTARY PUBLIC - - State of Kansas
SUSAN XOURIS
My Appt. Exp. 8/4/19

17002466

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:

1. Membership Application, including Checklist, Statutory Disqualification Notice and Clearing Letter of Guarantee
2. User Agreement
3. Securities Routing Agreement
4. Market Maker Registration Application and User Agreement Addendum for Registered Market Makers
5. Retail Member Organization Application
6. User Agreement Addendum to Permit Volume Attribution
7. Volume Aggregation and Execution Detail Request
8. Direct Debit Opt-In Form
9. Non-Member Clearing Firm Information Document
10. Sponsored Access Application, including Checklist and Information Document, Sponsoring Member Consent and Sponsored Participant Agreement
11. Service Bureau Information Document, Service Bureau Port Fee Agreement and Service Bureau Agreement
12. Connectivity Services Agreement, Extranet Addendum to the Connectivity Services Agreement and Bats Connect Order Form
13. Data Agreement, Data Feed Order Form and System Description, List of Affiliates, Subscriber Agreement, Service Facilitator List, External Controlled Data Distribution Trial Addendum, U.S. Market Data Policies

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

Bats Global Markets
Membership Application

In order to join Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc., and Bats 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@bats.com.

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

APPLICATION CHECKLIST
☐ Membership Application, including Statutory Disqualification Notice
☐ Clearing Letter of Guarantee **(only if you are not self-clearing)** – per Exchange
☐ User Agreement – per Exchange
☐ Securities Routing Agreement – per Exchange
☐ Most recent **signed and notarized** Form BD, including schedules and disclosure reporting pages
☐ 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®
☐ 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
☐ All FOCUS Reports filed since the last annual audit
☐ Organizational Documents: Articles of Incorporation and Bylaws; Partnership Agreement; Limited Liability Company Agreement or Operating Agreement; or similar documentation
☐ IRS Form W-9 or W-8
☐ A list of all Authorized Traders, **including name and CRD #**, the Applicant will be registering with the Exchange
☐ 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@bats.com or 913.815.7002. In addition, please refer to the Exchange's website at www.bats.com for additional information regarding the membership process.

Bats Global Markets
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

☐ Corporation ☐ Limited Liability Company ☐ Partnership ☐ Sole Proprietorship

State of Organization:_____ Federal Employer ID Number:_____

TYPE OF BUSINESS ACTIVITIES CONDUCTED BY APPLICANT (check all that apply)

☐ Market Maker* ☐ Public Customer Business ☐ Clearing Services ☐ Firm Proprietary Trading

☐ Other: _____

*Please contact Membership Services for more information on becoming a Market Maker on the Exchange.

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

- ☐ Bats BZX Exchange, Inc.
- ☐ Bats BYX Exchange, Inc.
- ☐ Bats EDGA Exchange, Inc.
- ☐ Bats EDGX Exchange, Inc.
- ☐ BOX Options Exchange, LLC
- ☐ Chicago Board Options Exchange, Inc.
- ☐ C2 Options Exchange, Inc.
- ☐ Chicago Stock Exchange, Inc.
- ☐ Financial Industry Regulatory Authority
- ☐ International Securities Exchange, LLC
- ☐ ISE Gemini, LLC
- ☐ ISE Mercury, LLC
- ☐ Investors Exchange, LLC
- ☐ Miami International Securities Exchange, LLC
- ☐ MIAX PEARL, LLC
- ☐ NASDAQ Stock Market, LLC
- ☐ NASDAQ OMX BX, Inc.
- ☐ NASDAQ OMX PHLX, LLC
- ☐ New York Stock Exchange, LLC
- ☐ NYSE Arca, Inc.
- ☐ NYSE MKT, LLC
- ☐ NYSE National, Inc.

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 Regulator: _____ Name of Other Regulator: _____

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):

Has Applicant during the past three years 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 the 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:	

[Remainder of page intentionally left blank.]

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 of 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

Bats Global Markets
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

Bats BYX Exchange, Inc.
Clearing Letter of Guarantee

NOTICE OF CONSENT – To be completed by Clearing Firm of Applicant Broker-Dealer

In connection with the qualification of _____ ("Member") as a member of Bats BYX Exchange, Inc. ("Exchange") and pursuant to Exchange Rule 11.15, as may be amended or re-numbered from time to time, 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 Clearing Firm accepts full responsibility for clearing and settling any and all transactions made by the Member and/or such persons having access to the Exchange pursuant to a sponsorship arrangement with the Member to the extent such transactions are executed on the Exchange or on other markets after being routed away from the Exchange.

This section shall be deemed a letter of guarantee, letter of authorization, or notice of consent pursuant to Exchange Rules and may be relied upon by Exchange. This Notice of Consent shall be subject to Exchange Rules, as amended from time to time, and shall remain in effect until revoked in writing by the Clearing Firm.

_____

Clearing Firm (Broker-Dealer Name)

_____

NSCC Clearing #

_____

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

_____

Printed Name/Title

_____

Date

Bats BYX Exchange, Inc.
User Agreement

This User Agreement (this "Agreement"), with an effective date as of the date executed on the signature page hereof, is made by and between Bats BYX Exchange, Inc., a Delaware corporation, with its principal offices at 8050 Marshall Drive, Suite 120, Lenexa, Kansas 66214 ("Exchange"), and the user referenced below ("User").

1. **Term of the Agreement.** This Agreement will continue until terminated pursuant to the terms of this Agreement.

2. **Services.** Subject to the terms and conditions of this Agreement, User will have the right to access Exchange to enter orders on Exchange, receive status updates on orders, cancel orders, and execute trades against orders on the Exchange limit order book (collectively, the "Services"). User acknowledges and agrees that nothing in this Agreement constitutes an understanding by Exchange to continue any aspect in its current form. Exchange may from time to time make additions, deletions or modifications to the Services. User acknowledges and agrees that Exchange may temporarily or permanently, unilaterally condition, modify or terminate the right of any individuals or entities to access, receive or use Exchange in accordance with Certificate of Incorporation, Bylaws, Rules and Procedures of Exchange, as amended from time to time (the "Exchange Rules"). In the event of a conflict between the Exchange Rules and this Agreement, the Exchange Rules shall prevail. Exchange reserves the right to modify or change the Services provided Exchange notifies User prior to the effectiveness of the modification and User's continued use of the Services following the modification will constitute User's acceptance of the modification.

3. **Compliance.** Except as otherwise provided herein, with respect to all orders submitted to Exchange by User, it is the sole responsibility of User to ensure compliance, by itself, its customers and its representatives, with all applicable United States federal and state laws, rules, and regulations as well as those of FINRA or any other self-regulatory organization of which the User is a member to the extent applicable to User. User represents and warrants that: (i) it will use Exchange only if and when it is duly authorized to use Exchange pursuant to the Exchange Rules; (ii) it agrees to be bound by, and will only use Exchange in compliance with, Exchange Rules; (iii) it is and will remain responsible for its use of Exchange and the use of Exchange by any of its employees, customers or agents or, if User is a member of Exchange, by any person which has entered into a sponsorship arrangement with User to use Exchange (a "Sponsored Participant"); (iv) it will maintain and keep current a list of all authorized traders who may obtain access to Exchange on behalf of User and/or any Sponsored Participant(s); and (v) it will familiarize User's authorized traders with all of User's obligations under this Agreement and will assure that they receive appropriate training prior to any use of or access to Exchange.

4. **Monitoring.** User acknowledges and agrees that Exchange will monitor the use of Exchange by User for compliance with all applicable laws and regulations, including, without limitation, Exchange Rules. User acknowledges its responsibility to monitor its employees, agents and customers for compliance with Exchange Rules, the rules and regulations of any self-regulatory organizations of which User is a member and all applicable federal and state laws.

5. **Settlement of Transactions.** User agrees that it is User's absolute, unconditional, and unassignable obligation, in connection with each securities transaction effected by User on Exchange to ensure the timely delivery of the subject securities and/or funds as well as any required remittance of interest, dividend payments and/or other distributions in compliance with applicable laws and rules, including, without limitation, relevant rules under the Securities Exchange Act of 1934, as amended (the "Act") as well as the rules of any qualified clearing agency. User will promptly notify Exchange in writing upon becoming aware of any material change in or to User's clearing arrangements. Exchange retains the right to break any trade without liability to User or any of User's customers in accordance with the Exchange's Clearly Erroneous Executions Rule (Exchange Rule 11.17, as may be amended or re-numbered from time to time).

6. **Sponsored Participants.** Notwithstanding Exchange's execution and delivery to User of a copy of this Agreement, if User is a Sponsored Participant, and not a member of Exchange, as a condition to initiating and continuing access to Exchange, User must enter into and maintain customer agreements with one or more sponsoring members of Exchange establishing proper relationship(s) and account(s) through which User may trade on Exchange. Such customer agreement(s) must incorporate the sponsorship provisions set forth in Exchange Rules.

7. Connectivity. User is solely responsible for providing and maintaining all necessary electronic communications with Exchange, including, wiring, computer hardware, software, communication line access, and networking devices.

8. Market Data. User hereby grants to Exchange a non-exclusive, non-assignable, non-transferable, worldwide, irrevocable license to receive and use information and data that User or User's agent enters into Exchange ("User's Data") for the following purposes: for performing self-regulatory functions; for internal commercial purposes (i.e., purposes that do not include disclosing, publishing, or distributing outside of Exchange); and for use within Exchange market data products (i.e., products that include disclosure, publication, or distribution to third parties), provided that: (i) such market data products are provided in an aggregate manner that does not directly or indirectly identify User as the source of the information; and (ii) fees for any such market data product are filed with the Securities and Exchange Commission ("SEC") in accordance with the requirements of Section 19 of the Act. Subject to the foregoing license, as between Exchange and User, User retains all ownership and other rights associated with User's Data. No provision in this Agreement shall impair any right, interest, or use of User's Data granted by operation of SEC rules or any other rule or law. User represents and warrants that, with respect to User's Data: (i) User owns or has sufficient rights in and to User's Data to authorize Exchange to use User's Data to perform all obligations under this Agreement with respect thereto; (ii) use or delivery of User's Data by User or Exchange will not violate the proprietary rights (including, without limitation, any privacy rights) of any party; and (iii) use or delivery of User's Data by User or Exchange will not violate any applicable law or regulation.

9. Restrictions on Use; Security. Unless otherwise required by law, User may not sell, lease, furnish or otherwise permit or provide access to Exchange to any other entity or to any individual that is not User's employee, customer, agent or Sponsored Participant. User accepts full responsibility for its employees', customers', agents' and Sponsored Participants' use of Exchange, which use must comply with Exchange Rules and the User's obligations under this Agreement. User will take reasonable security precautions to prevent unauthorized use of or access to Exchange, including unauthorized entry of information into Exchange, or the information and data made available therein. User understands and agrees that User is responsible for any and all orders, trades and other messages and instructions entered, transmitted or received under identifiers, passwords and security codes of User's authorized traders, and for the trading and other consequences thereof, except in the event of willful misconduct, fraud or a breach of this Agreement by Exchange that results in unauthorized access by other parties. User may not sell, lease, furnish or otherwise permit or provide access to any data feed containing quotation or trade information from Exchange ("Exchange Data") to any other person or to any other office or place unless it signs and complies with a separate Bats Global Markets Data Agreement. Each party shall install and maintain at all times during the term of this Agreement a corporate "firewall" protecting its computer network in accordance with commercially reasonable specifications and standards. Exchange shall not include in the operation of Exchange or the Services provided under this Agreement any computer code designed to disrupt, disable, harm, or otherwise impede in any manner, including aesthetic disruptions or distortions, the operation of User's computer system, or any other associated software, firmware, hardware, computer system or network (sometimes referred to as "viruses" or "worms"), or that would disable such system or impair in any way its operation based on the elapsing of a period of time, advancement to a particular date or other numeral (sometimes referred to as "time bombs", "time locks", or "drop dead" devices), or any other similar harmful, malicious or hidden programs, procedures, routines or mechanisms which would cause such programs to cease functioning, or provide or allow unauthorized access to the User's system, or to damage or corrupt data, storage media, programs, equipment or communications, or otherwise interfere with operations. In addition, Exchange shall implement a commercially reasonable method to intercept and block or delete any such viruses, worms, time bombs, time locks, drop dead devices or other malicious or harmful programs, procedures, routines or mechanisms, and carry out on a regular basis, no less frequently than monthly, and more frequently as reasonably required, a commercially reasonable method to scan its computer system and eliminate from it any such malicious or harmful programs, procedures, routines or mechanisms.

10. Information.

(a) Confidentiality. Both parties acknowledge that: (i) Exchange and the information and data made available therein, incorporate confidential and proprietary information developed, acquired by or licensed to Exchange; and (ii) each party may receive or have access to other proprietary or confidential information disclosed and reasonably understood as confidential by the disclosing party (collectively, the "Information"). The receiving party will use the disclosing party's Information solely to perform its obligations under this Agreement. The receiving party will take all precautions necessary to safeguard the confidentiality of the disclosing party's Information, including without limitation: (i) those taken by the receiving party to protect its own confidential information; and (ii) those which the disclosing party may reasonably request from time to time. Exchange will not disclose the identity of User or User's customers to any of its other members or to any third parties in connection with orders, trades and other messages and instructions entered or executed by User on Exchange, except as required by a court or regulatory or self-regulatory authority with jurisdiction over Exchange or User, or to facilitate the clearance and settlement of a trade, or with written permission from User.

(b) Disclosure. The receiving party will not disclose, in whole or in part, the disclosing party's Information to any person, except as specifically authorized under this Agreement. User may not disclose any data or compilations of data made available to User by Exchange without the express, prior written authorization of Exchange. The receiving party may also disclose Information in accordance with its regulatory obligations.

(c) Unauthorized Use or Disclosure. The parties acknowledge that any unauthorized use or disclosure of the disclosing party's Information may cause irreparable damage to the disclosing party. If an unauthorized use or disclosure occurs, the receiving party will immediately notify the disclosing party and take at its expense all steps necessary to recover the disclosing party's Information and to prevent its subsequent unauthorized use or dissemination, including availing itself of actions for seizure and injunctive relief. If the receiving party fails to take these steps in a timely and adequate manner, the disclosing party may take them at the receiving party's expense, and the receiving party will provide the disclosing party with its reasonable cooperation in such actions that the disclosing party may request.

(d) Limitation. The receiving party will have no confidentiality obligation with respect to any portion of the disclosing party's Information that: (i) the receiving party independently developed before receiving the Information from the disclosing party; (ii) the receiving party lawfully obtained from a third party under no obligation of confidentiality; (iii) is or becomes available to the public other than as a result of an act or omission of the receiving party or any of its employees; or (iv) the receiving party is compelled to disclose by law, regulation or legal process provided by a court of competent jurisdiction or other governmental entity to whose jurisdiction the receiving party is subject.

11. Clearly Erroneous Trade Policy. User has read and agrees to the terms stipulated in Exchange Rule 11.17 (Clearly Erroneous Executions), as Exchange may amend or re-number from time to time.

12. Corporate Names; Proprietary Rights. Exchange and User each acknowledge and agree that Exchange and User each have proprietary rights in their respective trade names, trademarks, service marks, logos, copyrights and patents, registered or unregistered (collectively, the "Marks"). Exchange and User each agree that they shall not use the other party's Marks in any way that would infringe upon the rights of the other Party. Further, this Agreement shall not grant either party the right to use the other party's Marks in any marketing, promotional or other materials without the prior review and written consent of the other party.

13. Fees. By signing this Agreement, User agrees to make timely payment of all system usage fees, as may be set forth in Exchange Rules or posted on Exchange's web site, as well as any applicable late fees for the failure to make payment within the required time period. Fees are payable within 30 days of the invoice date. User will be solely responsible for any and all telecommunications costs and all other expenses incurred in linking to, and maintaining its link to, Exchange. Failure to make payments within 30 days from the invoice date may result in suspension or termination of Services. User agrees to pay 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. Subject to the Act, Exchange reserves the right to change its fee schedule with 48 hours prior notice to User (delivered via e-mail and posted to the Exchange web site). The provisions of this Section will survive the termination of this Agreement.

14. 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 THE SYSTEM OR ANY SOFTWARE OR OTHER MATERIALS MADE AVAILABLE TO USER AND ALL SUCH OTHER WARRANTIES ARE HEREBY DISCLAIMED. THERE IS NO GUARANTY THAT THE SERVICES PROVIDED BY EXCHANGE WILL MEET THE USER'S REQUIREMENTS, BE ERROR FREE, OR OPERATE WITHOUT INTERRUPTION. EXCHANGE GIVES NO WARRANTIES OF ANY KIND AS TO THE FITNESS, CAPACITY, OR CONDUCT OF ANY OTHER PERSON HAVING ACCESS TO EXCHANGE AND SHALL NOT BE HELD LIABLE TO OR THROUGH USER OR OTHERWISE FOR ANY USE OR ABUSE WHATSOEVER OF EXCHANGE BY ANOTHER PERSON HAVING ACCESS TO EXCHANGE, 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.

15. NO LIABILITY FOR TRADES. ABSENT FRAUD OR WILLFUL MISCONDUCT BY EXCHANGE OR A CLAIM ARISING OUT OF EXCHANGE'S INDEMNIFICATION OBLIGATION, USER UNDERSTANDS AND AGREES THAT: (i) EXCHANGE IS NOT DIRECTLY OR INDIRECTLY A PARTY TO OR A PARTICIPANT IN ANY TRADE OR TRANSACTION ENTERED INTO OR

OTHERWISE CONDUCTED THROUGH EXCHANGE; AND (ii) EXCHANGE IS NOT LIABLE IN ANY MANNER TO ANY PERSON (INCLUDING WITHOUT LIMITATION USER AND ANY PERSON FOR WHOM USER IS AUTHORIZED TO TRADE OR ACT) FOR THE FAILURE OF ANY PERSON ENTERING INTO A TRADE OR TRANSACTION BY MEANS OF EXCHANGE TO PERFORM SUCH PERSON'S SETTLEMENT OR OTHER OBLIGATIONS UNDER SUCH TRADE OR TRANSACTION. ABSENT FRAUD OR WILLFUL MISCONDUCT BY EXCHANGE OR A CLAIM ARISING OUT OF EXCHANGE'S INDEMNIFICATION OBLIGATION, NEITHER EXCHANGE, NOR ANY OF ITS AGENTS, AFFILIATES OR LICENSORS WILL BE LIABLE FOR ANY LOSSES, DAMAGES, OR OTHER CLAIMS, ARISING OUT OF EXCHANGE OR ITS USE AND ANY LOSSES, DAMAGES, OR OTHER CLAIMS, RELATED TO A FAILURE OF EXCHANGE TO DELIVER, DISPLAY, TRANSMIT, EXECUTE, COMPARE, SUBMIT FOR CLEARANCE AND SETTLEMENT, OR OTHERWISE PROCESS AN ORDER, MESSAGE, OR OTHER DATA ENTERED INTO, OR CREATED BY, EXCHANGE WILL BE ABSORBED BY THE USER THAT ENTERED THE ORDER, MESSAGE OR OTHER DATA INTO EXCHANGE. NOTWITHSTANDING THE FOREGOING, EXCHANGE MAY BE LIABLE TO USER TO THE EXTENT SUCH LIABILITY ARISES BASED ON THE EXCHANGE RULE CURRENTLY NUMBERED 11.16 (LIMITATION OF LIABILITY), AS SUCH RULE MAY BE AMENDED OR RE-NUMBERED FROM TIME TO TIME.

16. **NO CONSEQUENTIAL DAMAGES.** ABSENT FRAUD OR WILLFUL MISCONDUCT BY EXCHANGE OR A CLAIM ARISING OUT OF EXCHANGE'S INDEMNIFICATION OBLIGATION, UNDER NO CIRCUMSTANCES WILL 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 EXCHANGE, INTERRUPTION IN USE OR AVAILABILITY OF EXCHANGE, 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, EXCHANGE MAY BE LIABLE TO USER TO THE EXTENT SUCH LIABILITY ARISES BASED ON THE EXCHANGE RULE CURRENTLY NUMBERED 11.16 (LIMITATION OF LIABILITY), AS SUCH RULE MAY BE AMENDED OR RE-NUMBERED FROM TIME TO TIME.

17. **Indemnification by User.** User agrees to indemnify and hold harmless Exchange, its owners, subsidiaries, affiliates, officers, directors, employees, 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 and for any loss or claim which may arise from a claim that one or more trades or orders in securities placed by User with Exchange were in violation of any state or federal securities law or Exchange Rules unless such expenses, costs, damages, claims, demands, proceedings, suits, actions, or liabilities arise from Exchange's willful misconduct, fraud or breach of Exchange's obligations under this Agreement.

18. **Indemnification by Exchange.** Exchange agrees to indemnify, defend and hold harmless User and its subsidiaries, affiliates and its and their respective officers, directors, employees, and agents from and against all expenses and costs and damages (including any 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 Exchange or the Services, or User's use thereof, infringes any copyright, patent, trademark, trade secret or other intellectual property right.

19. **Termination.** User or Exchange may terminate this Agreement or any part of the Services upon 30 days written notice to the other party. In addition, Exchange may suspend or terminate the Services to User immediately if it determines, in Exchange's sole reasonable determination, that: (i) User has breached any material term of this Agreement; (ii) User is engaged in activities that Exchange determines to be detrimental to Exchange or its members; (iii) User poses a credit risk to Exchange; (iv) User is selling, leasing, furnishing or otherwise permitting or providing access to Exchange Data without the prior approval of Exchange; (v) User has violated any Exchange Rules; or (vi) User ceases to be a member in good standing with Exchange. Upon the termination of this Agreement for any reason, all rights granted to User hereunder will cease. The following Sections will survive the termination or expiration of this Agreement for any reason: 8, 9, 10, 12, 13, 14, 15, 16, 17, 18, 19, 24 and 26. In no event will termination of this Agreement relieve User of any obligations incurred prior to the termination or through its use of or connection to Exchange.

20. Acknowledgement of SRO Obligations. Exchange represents: (i) that Exchange is registered with the SEC as a national securities exchange pursuant to Section 6 of the Act; (ii) that Exchange has a statutory obligation to protect investors and the public interest, and to ensure that quotation information supplied to investors and the public is fair and informative, and not discriminatory, fictitious or misleading; (iii) that Section 19(g)(1) of the Act mandates that Exchange, as a self-regulatory organization, comply with the Act; and (iv) that Exchange has jurisdiction over its members to enforce compliance with the Act as well as the rules, regulations and interpretations of Exchange. Accordingly, User agrees that Exchange, when required to do so in fulfillment of its statutory obligations, may, in accordance with Exchange Rules, temporarily or permanently, unilaterally condition, modify or terminate the right of any or all individuals or entities, including User, to receive or use the Services. Exchange shall undertake reasonable efforts to notify User of any such condition, modification or termination, and User shall promptly comply with any requirement that may be contained in such notice within such period of time as may be determined in good faith by Exchange to be necessary and consistent with its statutory obligations. Any individual or entity that receives such a notice shall have available to it such procedural protections as are provided to it by the Act and the applicable rules thereunder and Exchange Rules.

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

22. 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.

23. 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.

24. Arbitration. In connection with the following agreement to arbitrate, each party understands that: (i) arbitration is final and binding on the parties; (ii) the parties are waiving their right to seek remedies in court, including the right to jury trial; (iii) pre-arbitration discovery is generally more limited than and different from court proceedings; (iv) the arbitrators' award is not required to include factual findings or legal reasoning, and any party's right to appeal or seek modification of rulings by the arbitrators is strictly limited; and (v) the panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry. Subject to the preceding disclosures, each party agrees that any controversy arising out of or relating to this Agreement or the breach thereof will be resolved and settled by arbitration in accordance with the Commercial Arbitration Rules of the American Arbitration Association or in accordance with such other rules and procedures as are agreed to by the parties. The arbitration proceeding shall be conducted in New York, New York, unless otherwise agreed to by the parties. Judgment upon arbitration may be entered in any court, state or federal, having jurisdiction; provided, however, that nothing herein will prevent either party from: (i) petitioning a regulatory body regarding a matter in question over which the regulatory body has administrative jurisdiction; or (ii) pursuing injunctions before any administrative or judicial forum provided that all monetary and other relief is submitted for arbitration.

25. Amendment. Exchange may amend any term or condition of this Agreement on one hundred and twenty (120) days' written notice to User (which notice may be provided by way of a circular issued to Members generally). User may object in writing to the proposed amendment by providing a written response to the address specified above, such response stating in reasonable detail the basis of the objection. Such response must be received no later than sixty (60) days after the date that Exchange distributed the initial notice. Exchange will respond to User's timely objection in writing within thirty (30) days of receipt and will use reasonable efforts thereafter to meet with the objecting User (in person or by phone) to discuss in good faith any potential resolution. Otherwise, any use by User of the System after the expiration of the one hundred and twenty (120) day notice period shall be deemed acceptance by User of the amendment. User may not alter any terms and conditions of this Agreement, and no modification to this Agreement proposed by User will be binding, unless in writing and manually signed by an authorized representative of each party.

26. Miscellaneous. All notices or approvals required or permitted under this Agreement must be given in writing to Exchange at the address specified above or to User at its last reported principal office address. Any waiver or modification of

this Agreement will not be effective unless executed in writing and signed by the other party. 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. For all matters not subject to Section 24 (Arbitration) above, 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. If any provision of this Agreement is held to be unenforceable, in whole or in part, such holding will not affect the validity of the other provisions of this Agreement. This Agreement, together with the applicable Exchange Rules, constitutes the complete and entire statement of all conditions and representations of the agreement between Exchange and User with respect to its subject matter and supersedes all prior writings or understandings.

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

User:_____

Signature:_____

Printed Name:_____

Title:_____

Bats BYX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats Trading, Inc.
Securities Routing Agreement

Provided that User is a Member or Sponsored Participant of a Member of either Bats BZX Exchange, Inc., Bats BYX Exchange, Inc. or both of Bats BZX Exchange, Inc. and Bats BYX Exchange, Inc. (as applicable, the "Exchange") and subject to a valid, ongoing User Agreement with Exchange, Bats Trading, Inc. (hereinafter "Bats Trading"), a broker-dealer registered in accordance with Section 15(a) of the Securities Exchange Act of 1934, as amended (the "Act"), agrees to act as agent to User for the purpose of providing certain routing services, as described herein, provided that User is bound by the terms and conditions of this agreement (the "Routing Agreement") and any applicable rules and interpretations of Exchange Rules. Whereas Bats Trading provides certain order routing services for Exchange, and User desires to use the order routing facilities of Exchange, for good and valuable consideration, User and Bats Trading agree as follows:

1. **Routing Services.** Bats Trading, a wholly owned subsidiary of CBOE V, LLC (f/k/a Bats Global Markets, Inc.), agrees to act as agent for User for routing orders entered into Exchange to the applicable market centers or broker-dealers for execution, whenever such routing is at User's request, and is permitted in accordance with Exchange Rules. User understands and agrees that orders executed on its behalf shall at all times be subject to the terms and conditions of Exchange Rules. In the event of a conflict between the Exchange Rules and this Routing Agreement, the Exchange Rules shall prevail.

2. **Orders Not Eligible for Routing Services.** User agrees that Bats Trading will not handle or otherwise route any orders that are not eligible for order routing in accordance with Exchange Rules.

3. **Cancellation; Modification of Orders.** User agrees that any requests regarding cancellation or modification of orders shall be subject to Exchange Rules. User understands that the Exchange Rules may provide that requests to cancel orders while the order is routed away to another market center and remains outside Exchange will be processed by Bats Trading subject to the applicable trading rules of the relevant market center.

4. **Transmission of Order Instructions.** User agrees that all orders on its behalf must be transmitted to Bats Trading through Exchange. User agrees that Exchange is its exclusive mechanism for purposes of transmitting orders on its behalf to Bats Trading and for receiving notice regarding such orders. Bats Trading shall be entitled to rely upon and act in accordance with any order instructions received from Exchange on behalf of User. User agrees that all order executions effected on behalf of User pursuant to this Routing Agreement shall be reported by Bats Trading to Exchange. User shall be notified of such executions through Exchange.

5. **Clearance and Settlement.** User agrees that all transactions executed on its behalf shall be processed in accordance with Exchange Rules. If User is a Member, User agrees that orders executed on its behalf by Bats Trading shall be automatically processed by Exchange for clearance and settlement on a locked-in basis. If User is a Sponsored Participant, User agrees that all orders executed on its behalf by Bats Trading shall be cleared and settled, using the relevant sponsoring Exchange Member's mnemonic (or its clearing firm's mnemonic, as applicable) and such Exchange Member retains responsibility for the clearance and settlement of all such orders.

6. **Information.**

(a) Confidentiality. Both parties acknowledge that each party to this Routing Agreement may receive or have access to other proprietary or confidential information disclosed and reasonably understood as confidential by the disclosing party (collectively, the "Information"). The receiving party will use the disclosing party's Information solely to perform its obligations under this Routing Agreement. The receiving party will take all precautions necessary to safeguard the confidentiality of the disclosing party's Information, including without limitation: (i) those taken by the receiving party to protect its own confidential information; and (ii) those which the disclosing party may reasonably request from time to time. Bats Trading will not disclose the identity of User or User's customers to any of Exchange's other Members or to any third parties in connection with orders, trades and other messages and instructions entered or executed by User on Exchange, except as required by a court or regulatory or self-regulatory authority with jurisdiction over Bats Trading, Exchange or User, or to facilitate the

clearance and settlement of a trade, or with written permission from User.

(b) Disclosure. The receiving party will not disclose, in whole or in part, the disclosing party's Information to any person, except as specifically authorized under this Routing Agreement. If applicable, User may not disclose any data or compilations of data made available to User by Bats Trading without the express, prior written authorization of Bats Trading. The receiving party may also disclose Information in accordance with its regulatory obligations.

(c) Unauthorized Use or Disclosure. The parties acknowledge that any unauthorized use or disclosure of the disclosing party's Information may cause irreparable damage to the disclosing party. If an unauthorized use or disclosure occurs, the receiving party will immediately notify the disclosing party and take at its expense all steps necessary to recover the disclosing party's Information and to prevent its subsequent unauthorized use or dissemination, including availing itself of actions for seizure and injunctive relief. If the receiving party fails to take these steps in a timely and adequate manner, the disclosing party may take them at the receiving party's expense, and the receiving party will provide the disclosing party with its reasonable cooperation in such actions that the disclosing party may request.

(d) Limitation. The receiving party will have no confidentiality obligation with respect to any portion of the disclosing party's Information that: (i) the receiving party independently developed before receiving the Information from the disclosing party; (ii) the receiving party lawfully obtained from a third party under no obligation of confidentiality; (iii) is or becomes available to the public other than as a result of an act or omission of the receiving party or any of its employees; or (iv) the receiving party is compelled to disclose by law, regulation or legal process provided by a court of competent jurisdiction or other governmental entity to whose jurisdiction the receiving party is subject.

7. Term of Agreement. This Routing Agreement will be effective as of the date executed by Bats Trading on the signature page hereof and will remain in effect thereafter until terminated by either party upon notice to the other party. Termination will be effective at the close of trading in the affected markets and applications on the day that notice of termination is received by the other party hereto. Bats Trading may terminate this Routing Agreement with written notice if: (i) User is in breach of this Routing Agreement for any reason; (ii) any representations made by User in connection with this Routing Agreement or the User Agreement are or become false or misleading; or (iii) User is no longer a Member or Sponsored Participant of Exchange or otherwise authorized to access Exchange. Upon the termination of this Routing Agreement or the User Agreement for any reason, all rights granted to User hereunder will cease. The following Sections will survive the termination or expiration of this Routing Agreement for any reason: 6, 8, 9, 10, 11, 12, 15 and 17. In no event will termination of this Routing Agreement relieve User of any obligations incurred prior to the termination or through its use of or connection to Exchange.

8. Indemnity. User agrees to indemnify, defend and hold Bats Trading harmless from and against any and all claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries, and deficiencies, including interest, penalties, and attorneys' fees, arising from or as a result of User's breach of its obligations under this Routing Agreement or otherwise from its use of Bats Trading routing services, unless such claims, demands, losses, costs, expenses, obligations, liabilities, damages, recoveries, and deficiencies arise from Bats Trading's willful misconduct, fraud or breach of Bats Trading's obligations under this Routing Agreement.

9. Indemnification by Bats Trading. Bats Trading agrees to indemnify, defend and hold harmless User and its subsidiaries, affiliates and its and their respective officers, directors, employees, and agents from and against all expenses and costs and damages (including any 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 order routing services of Bats Trading, or User's use thereof, infringes any copyright, patent, trademark, trade secret or other intellectual property right.

10. DISCLAIMER OF WARRANTY. ROUTING SERVICES ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND. ALL WARRANTIES, CONDITIONS, REPRESENTATIONS, INDEMNITIES AND GUARANTEES WITH RESPECT TO THE ROUTING SERVICE, WHETHER EXPRESS, IMPLIED, OR STATUTORY, ARISING BY LAW, CUSTOM, PRIOR ORAL OR WRITTEN STATEMENTS BY BATS TRADING, EXCHANGE OR ITS OR THEIR AGENTS, AFFILIATES, LICENSORS OR OTHERWISE (INCLUDING, BUT NOT LIMITED TO ANY WARRANTY OF SATISFACTORY QUALITY, ACCURACY, UNINTERRUPTED USE, TIMELINESS, TRUTHFULNESS, SEQUENCE, COMPLETENESS, MERCHANTABILITY, FITNESS FOR PARTICULAR PURPOSE OR NON-INFRINGEMENT AND ANY IMPLIED WARRANTIES ARISING FROM TRADE USAGE, COURSE OF DEALING OR COURSE OF PERFORMANCE) ARE HEREBY OVERRIDDEN, EXCLUDED AND DISCLAIMED.

11. NO LIABILITY FOR TRADES. ABSENT FRAUD OR WILLFUL MISCONDUCT BY BATS TRADING OR A CLAIM ARISING OUT OF BATS TRADING'S INDEMNIFICATION OBLIGATION, USER UNDERSTANDS AND AGREES THAT BATS TRADING IS NOT LIABLE UNDER THIS ROUTING AGREEMENT TO ANY PERSON (INCLUDING WITHOUT LIMITATION USER AND ANY PERSON FOR WHOM USER IS AUTHORIZED TO TRADE OR ACT) FOR THE FAILURE OF ANY PERSON ENTERING INTO A TRADE OR TRANSACTION BY MEANS OF EXCHANGE TO PERFORM SUCH PERSON'S SETTLEMENT OR OTHER OBLIGATIONS UNDER SUCH TRADE OR TRANSACTION. ABSENT FRAUD OR WILLFUL MISCONDUCT BY BATS TRADING OR A CLAIM ARISING OUT OF BATS TRADING'S INDEMNIFICATION OBLIGATION, NEITHER BATS TRADING, OR ITS AGENTS, AFFILIATES OR LICENSORS WILL BE LIABLE FOR ANY LOSSES, DAMAGES, OR OTHER CLAIMS, ARISING OUT OF THE ROUTING SERVICE OR ITS USE. ANY LOSSES, DAMAGES, OR OTHER CLAIMS, RELATED TO A FAILURE OF BATS TRADING TO DELIVER, DISPLAY, TRANSMIT, EXECUTE, COMPARE, SUBMIT FOR CLEARANCE AND SETTLEMENT, OR OTHERWISE PROCESS AN ORDER, MESSAGE, OR OTHER DATA ENTERED INTO, OR CREATED BY, EXCHANGE WILL BE ABSORBED BY USER OR THE MEMBER SPONSORING USER, THAT ENTERED THE ORDER, MESSAGE OR OTHER DATA INTO EXCHANGE. NOTWITHSTANDING THE FOREGOING, BATS TRADING AS A FACILITY OF THE EXCHANGE MAY BE LIABLE TO USER TO THE EXTENT SUCH LIABILITY ARISES BASED ON THE EXCHANGE RULE CURRENTLY NUMBERED 11.16 (LIMITATION OF LIABILITY), AS SUCH RULE MAY BE AMENDED OR RE-NUMBERED FROM TIME TO TIME.

12. NO CONSEQUENTIAL DAMAGES. ABSENT FRAUD OR WILLFUL MISCONDUCT BY BATS TRADING OR A CLAIM ARISING OUT OF BATS TRADING'S INDEMNIFICATION OBLIGATION, UNDER NO CIRCUMSTANCES WILL BATS TRADING 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 ROUTING SERVICES, INTERRUPTION IN USE OR AVAILABILITY OF BATS TRADING, 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, BATS TRADING AS A FACILITY OF THE EXCHANGE MAY BE LIABLE TO USER TO THE EXTENT SUCH LIABILITY ARISES BASED ON THE EXCHANGE RULE CURRENTLY NUMBERED 11.16 (LIMITATION OF LIABILITY), AS SUCH RULE MAY BE AMENDED OR RE-NUMBERED FROM TIME TO TIME.

13. Assignment. User shall not assign, delegate or otherwise transfer this Routing Agreement or any of its rights or obligations hereunder without Bats Trading's prior approval, which will not be unreasonably withheld. Bats Trading may, as permitted by the Act, assign or transfer this Routing Agreement or any of its rights or obligations hereunder to a related or unrelated party upon notice to User.

14. Force Majeure. Notwithstanding any other term or condition of this Routing Agreement to the contrary, neither Bats Trading nor User will be obligated to perform or observe their obligations undertaken in this Routing Agreement if prevented or hindered from doing so by any circumstances found to be beyond their control.

15. Arbitration. In connection with the following agreement to arbitrate, each party understands that: (i) arbitration is final and binding on the parties; (ii) the parties are waiving their right to seek remedies in court, including the right to jury trial; (iii) pre-arbitration discovery is generally more limited than and different from court proceedings; (iv) the arbitrators' award is not required to include factual findings or legal reasoning, and any party's right to appeal or seek modification of rulings by the arbitrators is strictly limited; and (v) the panel of arbitrators will typically include a minority of arbitrators who were or are affiliated with the securities industry. Subject to the preceding disclosures, each party agrees that any controversy arising out of or relating to this Routing Agreement or the breach thereof will be resolved and settled by arbitration under the auspices of FINRA Dispute Resolution or in accordance with such other rules and procedures as are agreed to by the parties. The arbitration proceeding shall be conducted in New York, New York, unless otherwise agreed to by the parties. Judgment upon arbitration may be entered in any court, state or federal, having jurisdiction; provided, however, that nothing herein will prevent either party from: (i) petitioning a regulatory body regarding a matter in question over which the regulatory body has administrative jurisdiction; or (ii) pursuing injunctions before any administrative or judicial forum provided that all monetary and other relief is submitted for arbitration.

16. Amendment. Bats Trading, or Exchange on its behalf, may amend any term or condition of this Routing Agreement on one hundred and twenty (120) days' written notice to User (which notice may be provided by way of a circular issued to Members of the Exchange generally). User may object in writing to the proposed amendment by providing a written response to the address specified above, such response stating in reasonable detail the basis of the objection. Such response shall be received no later than sixty (60) days after the date that Exchange distributed the initial notice. Bats Trading, or Exchange on its behalf, will respond to User's timely objection in writing within thirty (30) days of receipt and will use reasonable efforts thereafter to meet with the objecting User (in person or by phone) to discuss in good faith any potential resolution. Otherwise, any use by User of the routing services provided by Bats Trading after the expiration of the one hundred and twenty (120) day notice period shall be deemed acceptance by User of the amendment. User may not alter any terms and conditions of this Routing Agreement, and no modification to this Routing Agreement proposed by User will be binding, unless in writing and manually signed by an authorized representative of each party.

17. Miscellaneous. All notices or approvals required or permitted under this Routing Agreement must be given in writing to Bats Trading at 8050 Marshall Drive, Suite 120, Lenexa, Kansas 66214, or to User at its last reported principal office address. Any waiver or modification of this Routing Agreement will not be effective unless executed in writing and signed by the other party. This Routing Agreement will bind each party's successors-in-interest. This Routing Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York, USA. For all matters not subject to Section 15 (Arbitration) above, 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 Routing Agreement. If any provision of this Routing Agreement is held to be unenforceable, in whole or in part, such holding will not affect the validity of the other provisions of this Routing Agreement. This Routing Agreement, together with the applicable Exchange Rules, constitutes the complete and entire statement of all conditions and representations of the agreement between Bats Trading and User with respect to its subject matter and supersedes all prior writings or understandings.

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

User:_____

Signature:_____

Printed Name:_____

Title:_____

Bats Trading, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats Global Markets
Market Maker Registration Application

Members applying to become Market Makers registered with Bats BZX Exchange, Inc. ("BZX"), Bats BYX Exchange, Inc. ("BYX"), Bats EDGA Exchange, Inc. ("EDGA") and Bats 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@bats.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

☐ Investment Banking ☐ Public Securities Business ☐ Proprietary Trading

☐ Market Maker ☐ Dealer/Specialist ☐ Other: _____

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:

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: _____

☐ 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 2.5[1]. 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 Exchange ☐ BYX Exchange ☐ EDGA Exchange ☐ EDGX Exchange

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 Exchange ☐ BYX Exchange ☐ EDGA Exchange ☐ EDGX Exchange

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 Exchange ☐ BYX Exchange ☐ EDGA Exchange ☐ EDGX Exchange

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 Exchange ☐ BYX Exchange ☐ EDGA Exchange ☐ EDGX Exchange

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 Surveillance@bats.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

Bats Global Markets
User Agreement Addendum for Registered Market Makers

This User Agreement Addendum for registered Market Makers (this "Addendum"), with an effective date as of the date executed on the signature page hereof, is made by and among each of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats EDGX Exchange, Inc. (collectively, the "Exchange") and the user referenced below ("User"). Capitalized terms used but not defined in this Addendum shall have the meaning set forth in the User Agreement by and between the Exchange and User (the "User Agreement").

An executed version of this Addendum can be delivered to the Exchange via email to MembershipServices@bats.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 User (the "User Agreement") related to information or data that User or User's agent enters into Exchange ("Transaction Data"), User 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 User's volume ranking on the Exchange in such issuer's own securities. Further, User hereby agrees that Exchange can publicly identify User as a registered market maker on the Exchange. Finally, User 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 User's identity.

User:_____

Signature:_____

Printed Name:_____

Title:_____

Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.;
Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats BYX Exchange, Inc.
Retail Member Organization Application

The completion of this application is required in order to be qualified by Bats BYX Exchange, Inc. (the "Exchange" or "BYX") to participate in the Exchange's Retail Price Improvement ("RPI") program as a Retail Member Organization ("RMO").

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 BYX 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 into the BYX RPI program, such order is acceptable to the program 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 BYX Rule 11.24 for a full definition of terms and requirements of the RPI program.

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@bats.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 BYX Rule 11.24.

☐ 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 BYX Rule 11.24. Applicant further attests that it has in place WSPs pursuant to Rule 11.24. 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-dealers 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

Bats BYX 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 BYX 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 BYX on behalf of Customer pursuant to BYX Rule 11.24.

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 BYX will be in compliance with the requirements of Rule 11.24. 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

Bats BYX 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 BYX 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 BYX Rule 11.24, 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 BYX Rule 11.24.
   (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

Bats Global Markets
User Agreement Addendum to Permit Attribution

This User Agreement Addendum to Permit Attribution (this "Addendum"), with an effective date as of the date executed on the signature page hereof, is made by and among each of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats EDGX Exchange, Inc. (collectively, the "Exchange") and the user referenced below ("User"). Capitalized terms used but not defined in this Addendum shall have the meaning set forth in the User Agreement by and between the Exchange and User (the "User Agreement").

User's execution of this Addendum is optional. By signing this form, User authorizes attribution of Covered Data (as defined below) in Exchange data products and/or on the Exchange's public website.

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

TERMS OF ADDENDUM

Whereas, the Exchange provides certain services to User pursuant to the User Agreement and User desires to continue to use such services as modified below. For good and valuable consideration, User and the Exchange, agree as follows:

1. Scope. This Addendum shall be deemed to be a supplement to the User Agreement and all terms and provisions of the User Agreement which are not expressly overridden by the terms and conditions of this Addendum shall be incorporated herein by reference. This Addendum shall only apply to the Trading Platform(s), Attribution Type(s) and Attributed MPIDs selected by User below (collectively, the "Covered Data").

Trading Platform: User limits the applicability of this Addendum to the following Exchange trading platform(s):

☐ Bats BZX Exchange, Inc. (Equities)
☐ Bats BZX Exchange, Inc. (Options)
☐ Bats BYX Exchange, Inc.
☐ Bats EDGA Exchange, Inc.
☐ Bats EDGX Exchange, Inc. (Equities)

Attribution Type: User limits the applicability of this Addendum to the following types of attribution:

☐ Allow Use of User's Identity in connection with its Aggregate Volume Ranking Relative to other Users

☐ Allow Quote Attribution

Attributed MPIDs: User limits the applicability of this Addendum to the following MPIDs:

☐ Aggregate all User MPIDs ☐ Limit Attribution to Selected MPIDs: _____

2. Modification of User Agreement. The parties acknowledge that the User Agreement, including but not limited to Sections 8 and 10, requires the Exchange to keep User's identity confidential and would preclude the Exchange from publishing any information regarding information and data that User or User's agent enters into the Exchange. Notwithstanding such provisions, User hereby grants to the Exchange a non-exclusive, non-assignable, non-transferable, worldwide, revocable license to receive and use Covered Data (as defined by User's selection(s) above) within Exchange market data products and/or on the Exchange's public website even if such use of Covered Data is inconsistent with the terms of the User Agreement. The license granted hereunder shall remain in effect for the term of the User Agreement, unless this Addendum is terminated earlier by User or Exchange upon 30 days written notice to the other party.

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

User :_____

Signature:_____

Printed Name:_____

Title:_____

Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.;
Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats Global Markets
Volume Aggregation and Execution Detail Request

This request for volume aggregation and detailed execution information is made to Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc., and Bats 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 execution information for all aggregated volume. By signing below, each Member acknowledges and agrees that the other Member will have access to the same information and releases each Exchange from any liability associated with providing detailed execution information.

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

Bats Global Markets
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. Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats 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@bats.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:

- ☐ Bats BZX Exchange, Inc.
- ☐ Bats BYX Exchange, Inc.
- ☐ Bats EDGA Exchange, Inc.
- ☐ Bats 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

Bats Global Markets
Non-Member Clearing Firm Information Document

INFORMATION DOCUMENT – To be completed by the Non-Member Clearing Firm of Members of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats 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@bats.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

Bats Global Markets
Sponsored Access Application

In order to join Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats EDGX Exchange, Inc. (collectively, the "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@bats.com.

APPLICATION CHECKLIST
☐ Sponsored Access Application, including • Sponsoring Member Consent • Sponsored Participant Agreement
☐ A detailed description of how the Sponsoring Member will comply with the requirements of SEC Rule 15c3-5: *Risk Management Controls for Brokers or Dealers with Market Access*
☐ A copy of the Sponsoring Member's Policies and Procedures, specifically addressing SEC Rule 15c3-5
☐ User Agreement – per Exchange
☐ Securities Routing Agreement – per Exchange
☐ IRS Form W-9 or W-8

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@bats.com or 913.815.7002.

Bats Global Markets
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:

PORT SELECTION

Port Type/Quantity: ☐ BOE _____ ☐ FIX _____ ☐ DROP _____ ☐ FIX DROP _____

Is the Sponsored Participant allowed to enter Short Sales? ☐ Yes ☐ No

Is the Sponsored Participant allowed to enter Intermarket Sweep Orders? ☐ Yes ☐ No

What is the maximum dollar value per order? $_____

CONNECTIVITY

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

☐ Cross Connect ☐ Extranet:_____ ☐ VPN (certification only)

What type of connection(s) is the Sponsored Participant requesting? ☐ Certification ☐ Production

CLEARING (EQUITIES AND/OR OPTIONS)

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

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

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 communications 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 Bats Trade Desk at 913.815.7001 to verbally request that all open orders be cancelled or check the status of open orders.*

Sponsoring Member Firm:	Date:
Printed Name/Title:	Signature:

Bats Global Markets
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

Bats Global Markets
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 Bats 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

Bats Global Markets
Service Bureau Application and Agreements

SERVICE BUREAU INFORMATION		
Firm:		
Address:		
City:	State:	Zip:

BUSINESS CONTACT	TECHNICAL CONTACT
Name:	Name:
Email:	Email:
Phone:	Phone:

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

PORT SELECTION

Port Type/Quantity: ☐ BOE _____ ☐ FIX _____ ☐ DROP _____ ☐ FIX DROP _____

CONNECTIVITY

Which connectivity option will you use? (check one)

☐ Cross Connect* ☐ Extranet:_____ ☐ VPN (certification only)

What type of connections are you requesting? ☐ Certification ☐ Production

*If requesting a cross connect, a Connectivity Services Agreement is also required.

AUTHORIZATION

This form is governed by all of the terms and conditions set forth in the Bats Global Markets Service Bureau Application and Agreements. The persons listed above are the only individuals authorized to order or update services at Bats on behalf of the Service Bureau. Please contact Membership Services at 913.815.7002 or email MembershipServices@bats.com to add or delete authorized contacts.

Bats provides a best effort attempt to cancel all open orders from a Member/Service Bureau upon a communications disconnect. There is no guarantee that the automatic cancel feature provided by Bats will be error free or operate without interruption. By signing below, you agree and acknowledge that Bats 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 Bats Trade Desk at 913.815.7001 to verbally request that all open orders be cancelled or check the status of open orders.*

Printed Name:	Signature:
Title:	Date:

Bats Global Markets
Service Bureau Port Fee Agreement

This Service Bureau Port Fee Agreement (this "Agreement"), with an effective date as of the date executed below, is made by and among each of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc., and Bats EDGX Exchange, Inc., each a Delaware corporation with principal offices at 8050 Marshall Drive, Suite 120, Lenexa, Kansas 66214 (collectively, the "Exchange"), and the Authorized Service Bureau referenced below ("Service Bureau").

1. **Rights of Service Bureau.** The Exchange has granted to Service Bureau the non-exclusive and non-transferable right to act as the Authorized Service Bureau for one or more Members of the Exchange pursuant to one or more Service Bureau Agreements.

2. **Exchange Users and Data Recipients.** If Service Bureau has entered into a User Agreement with the Exchange (as may be amended, modified or supplemented from time to time, the "User Agreement"), pursuant to which Service Bureau has the right to access the Exchange to, among other things, submit orders to the Exchange and/or has entered into a Bats Global Markets Data Agreement with Market Data Express, LLC (as may be amended, modified or supplemented from time to time, the "Data Agreement"), pursuant to which Service Bureau has the right to receive and redistribute data feeds, then this Agreement shall be deemed to be a supplement to such agreements and all terms and provisions of such agreements which are not expressly overridden by the terms and conditions of this Agreement shall be incorporated herein by reference.

3. **All other Service Bureaus.** If Service Bureau has not entered into a User Agreement or Data Agreement, by signing this Agreement, Service Bureau has the right to access the Exchange to act as an Authorized Service Bureau only if in conformity with the requirements expressly described below.

4. **Port Fees.** Service Bureau agrees to make timely payment of fees charged specifically for linking to Exchange in order to act as an Authorized Service Bureau on behalf of one or more Members of the Exchange, as well as any applicable late fees for the failure to make payment within the required time period. The amount of applicable Port Fees shall be set forth in Exchange Rules or posted on the Exchange's web site. Port Fees are payable within 30 days of the invoice date. Service Bureau will be solely responsible for any and all other telecommunications costs and all other expenses incurred in linking to and maintaining its link to, Exchange. Failure to make payments within 30 days from the invoice date may result in suspension or termination of the Service Bureau Agreement(s) between Exchange and Service Bureau. Service Bureau agrees to pay 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. Subject to the Securities Exchange Act of 1934 (the "Act"), Exchange reserves the right to change its fee schedule, including Port Fees applicable to Service Bureau. Exchange will use commercially reasonable efforts to provide reasonable advance notice to Service Bureau of any such change to Port Fees, provided, however, that such notice shall be not less than 30 days prior to the effectiveness of the change, except to the extent a shorter period is: (i) required due to any situation that necessitates a change to Port Fees on an accelerated basis or otherwise precludes such advance notice, or (ii) required pursuant to an order of a court, an arbitrator or a regulatory agency.

4. **Term and Termination.** This Agreement, subject to earlier termination in accordance with its terms, shall continue until it is terminated at any time on not less than 24 hours written notice given by either party to the other.

5. **Several Obligations.** 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.

6. **Miscellaneous.** All notices or approvals required or permitted under this Agreement must be given in writing to Exchange at the address specified above or to Service Bureau at its last reported principal office address, unless Service Bureau designates a different address. Any waiver or modification of this Agreement will not be effective unless executed in writing and signed by the other party. This Agreement constitutes the sole and entire agreement of the parties to this Agreement, and supersedes all prior and contemporaneous understandings, agreements, representations and warranties, both oral and written, with respect to such subject matter; however, execution of this Agreement does not in any way affect the enforceability of any previously executed Service Bureau Agreement entered into by and among any Exchange, Service Bureau and Member of such Exchange, This Agreement will bind each party's successors-in-interest. Service Bureau may not assign this Agreement (including by operation of law) without the prior written consent of the Exchange, provided, however, that the Exchange shall not unreasonably withhold such consent. This Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York. Both parties submit to the jurisdiction of the state and federal courts in and for the State of New York for the resolution of any dispute arising under this Agreement. If any provision of this Agreement is held to be unenforceable, in whole or in part, such holding will not affect

the validity of the other provisions of this Agreement. This Agreement may be executed in one or more counterparts, which shall each be considered an original but all of which shall constitute one and the same Agreement.

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

Service Bureau:_____

Signature:_____

Printed Name:_____

Title:_____

Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.;
Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats Global Markets
Service Bureau Agreement

1. This Service Bureau Agreement (this "Agreement") is by and among each of Bats BZX Exchange, Inc. ("BZX"), Bats BYX Exchange, Inc. ("BYX"), Bats EDGA Exchange, Inc. ("EDGA") and Bats EDGX Exchange, Inc. ("EDGX"), each a Delaware corporation, with principal offices at 8050 Marshall Drive, Suite 120, Lenexa, Kansas 66214 (collectively, the "Exchange"), the Member of the Exchange designated below ("Member"), and the Authorized Service Bureau designated below ("Service Bureau").

2. The Service Bureau acknowledges that it is a party to a Service Bureau Port Fee Agreement with the Exchange.

3. This Agreement authorizes the Service Bureau to route orders and any modifications thereto to the Exchange on behalf of the Member.

4. By executing this Agreement, the undersigned Member agrees that it is responsible for all orders using its MPID/EFID entered on the Exchange through or by the Service Bureau. The Member also agrees to accept and honor all trades executed on the Exchange as a result of orders routed to the Exchange through or by the Service Bureau using the Member's mnemonic, regardless of whether such orders were provided to the Exchange in error by the Service Bureau.

5. The Member understands and agrees that it is its sole responsibility to immediately notify the Exchange in the event that it wishes to terminate this Agreement.

6. This Agreement, subject to earlier termination in accordance with its terms, shall continue until it is terminated at any time on not less than 24 hours written notice given by either party to the other.

7. This Agreement shall be governed by the laws of the state of New York without regard to its choice of law provisions.

IN WITNESS WHEREOF THE PARTIES HAVE EXECUTED THIS SERVICE BUREAU AGREEMENT EFFECTIVE AS OF THE DATE OF EXECUTION BY THE EXCHANGE SET FORTH BELOW.

Service Bureau:	Member:	Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.: Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.:
Signature	*Signature*	*Signature*
Printed Name	*Printed Name*	*Printed Name*
Title (must be an officer)	*Title (must be an officer)*	*Title (must be an officer)*
Name of Service Bureau	*Name of Firm*	*Date*
Service Bureau Contact	*Date*	
Email Address of Contact Person	*MPID or EFID of Member*	

This agreement should apply to the Exchanges noted below:

☐ BZX ☐ BYX ☐ EDGA ☐ EDGX ☐ BZX Options ☐ EDGX Options

Bats Global Markets
Connectivity Services Agreement

This Bats Global Markets Connectivity Services Agreement ("Agreement") is a binding agreement among you ("User") and each of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats EDGX Exchange, Inc. (collectively, the "Exchange"), with principal offices at 8050 Marshall Drive, Suite 120, Lenexa, Kansas 66214 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, whether physically or logically, 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 Bats Global Markets Data Agreement (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 Connectivity Manual available at http://cdn.batstrading.com/resources/membership/BATS_Connectivity_Manual.pdf, 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 Bats Global Markets Network Requirements, contained in the Connectivity Manual. The Exchange will provide notice of any material amendments to the Bats Global

Markets Network Requirements and User shall comply with the amended Bats 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, or cancel any physical connection provided hereunder, upon thirty (30) days' prior written notice to the Exchange.

5.2 By the Exchanges. 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 Exchange Members (as defined in the Exchange Rules), 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 Exchange Members; (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; or (vi) if User is a Member of an Exchange, User ceases to be a Member 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 GUARANTY 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, 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.

User :_____

Signature:_____

Printed Name:_____

Title:_____

Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.;
Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

USER INFORMATION		
Firm:		
Address:		
City:	State:	Zip:

BUSINESS CONTACT	TECHNICAL CONTACT
Name:	Name:
Email:	Email:
Phone:	Phone:

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

Extranet Addendum to the Bats Global Markets Connectivity Services Agreement

This Addendum (this "Addendum"), with an effective date as of the date executed on the signature page hereof, is made by and among each of Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc. and Bats EDGX Exchange, Inc. (collectively, the "Exchange") and the user referenced below ("User"). Terms not defined in this Addendum shall have the meanings set forth in that certain Bats Global Markets Connectivity Services Agreement executed by and between the Exchange and User, as may be amended from time to time (the "Connectivity Services Agreement").

User's execution of this Addendum is optional. By signing this Addendum, User identifies itself as an extranet (an "Extranet") and agrees to adhere to all obligations of an Extranet as set forth in the Bats US Equities/Options Extranet Manual, as may be amended from time to time (the "Extranet Manual"), and authorizes the Exchange to identify User as an Extranet and to include User's sales contact and service offerings in materials made publicly available on the Exchange's website.

Executed versions of this Addendum and any other requested documents can be delivered to the Exchange via email to MembershipServices@bats.com.

TERMS OF ADDENDUM

Whereas the Exchange provides certain services to User pursuant to the Connectivity Services Agreement and User desires to continue to use such services as modified below. For good and valuable consideration, User and the Exchange agree as follows:

1. **Scope.** This Addendum shall be deemed to supplement the Connectivity Services Agreement. Except as set forth herein, all of the terms and conditions of the Connectivity Services Agreement are hereby incorporated by reference and shall remain in full force and effect and are not superseded or amended by this Addendum; provided, however, that in the event of a conflict between the terms and conditions of this Addendum and the terms and conditions of the Connectivity Services Agreement, the terms and conditions of this Addendum control.

2. **Modification of Connectivity Services Agreement.** User hereby requests that the Exchange identify User as an Extranet and hereby acknowledges and agrees to adhere to all requisite obligations of an Extranet as specified in the Extranet Manual. Such obligations include, without limitation, having provisioned redundant, high speed connections to the Exchange for use by multiple members. The Exchange agrees that it will include User's sales contact and service offerings in materials made publicly available by the Exchange, including publication on the Exchange's website and/or any other promotional materials as determined in the Exchange's reasonable discretion, within two (2) weeks of both execution of this Addendum and verification that User is in compliance with the specific Extranet requirements set forth in the Extranet Manual.

3. **Obligations of Extranet.** By entering into this Addendum, User acknowledges and agrees to the following:

(a) User has no rights in or to Exchange data, except for the right to transmit the Exchange data to the degree permitted under this Addendum, the Connectivity Services Agreement and the Data Agreement. User acknowledges and agrees that the Exchange has (i) proprietary rights in the information and data that originates on, derives from or relates to markets that are regulated, operated or administered by the Exchange, in the information and data that relates to individuals and entities that are regulated by the Exchange, and in the information and data that relates to activities that are regulated or operated by the Exchange, and (ii) compilation rights or other rights in information and data gathered from other sources. All Exchange data, including without limitation any and all intellectual property rights inherent therein or appurtenant thereto, shall, as between the parties, be and remain the sole and exclusive property of the Exchange. User shall not, by act or omission, diminish or impair in any manner the acquisition, maintenance, and full enjoyment by the Exchange, its licensees, transferees and assignees, of the proprietary rights of the Exchange to Exchange data and the Exchange's networks and system.

(b) User agrees (i) not to format, display, access (except to the degree reasonably necessary to maintain the security of User's network and not otherwise in violation of this Addendum or the Connectivity Services Agreement) or alter Exchange data received through and from its connection to the Exchange; (ii) not to affect the integrity of Exchange data; and (iii) not to render Exchange data inaccurate, unfair, uninformative, fictitious, misleading, or discriminatory. User

represents that it will not interfere with or adversely affect any of the component parts or processes of Exchange data, its connection to any of the Exchange's systems, or any use thereof by any other Authorized Third Party.

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

User :_____

Signature:_____

Printed Name:_____

Title:_____

Bats BZX Exchange, Inc.; Bats BYX Exchange, Inc.;
Bats EDGA Exchange, Inc.; Bats EDGX Exchange, Inc.

Signature:_____

Printed Name:_____

Title:_____

Date:_____

Bats
a CBOE company

Bats Global Markets
17 State Street
New York, NY 10017

Bats Connect Order Form

v1.2

Bats Connect Order Form

Is the Client information the same as provided on the Connectivity Services Agreement? ☐ Yes ☐ No If No, please provide information below.

Business Contact Name	*Email*	*Contact number*
Technical Contact Name	*Email*	*Contact number*

Billing Information:

Billing Contact Name	*Address*
Email/Contact Phone	*City, State, ZIP*

Service Selection

Market Data Connectivity*

Selection	Data Feed	Fee Per Month
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
	Total	$ 0.00

Fee covers both A and B feeds (over independent cross-connects) and is for connectivity only.
*Firms will be required to pay any exchange related data fees directly to the exchange.

Unicast Access (Order Entry)**

Selection	Bandwidth	
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
☐ Add ☐ Remove		
***Additional fees apply for access to NYSE, ARCA or MKT		$ 0.00
	Grand Total	$ 0.00

**Per cross-connect per destination location.
***Multicast and unicast access to NYSE Markets carry an additional $1,200 and/or $1,000/month connection fees, respectively, passed through via SFTI.

Client (Firm Name)

Print Person Name

Authorized Signature *Date*

Bats Global Markets
Data Agreement
(Formerly the Exchange Data Vendor Agreement)

This Bats Global Markets Data Agreement (this "Agreement"), with an effective date as of the date executed on the signature page hereof, is made by and between MDX and Data Recipient.

1. **Definitions.** The following terms, when used in this Agreement, shall have the meanings set forth below:

"Act" shall mean the Securities Exchange Act of 1934, as amended.

"Additional Agreements" shall mean the User Agreement, Bats Global Markets Data Feed Order Form and System Description, Direct Edge System Description/Data Feed Request, Price List, Fee Schedule, and any additional terms and conditions, policies or agreements entered into in writing by Data Recipient with MDX or any of its predecessors or affiliates (including without limitation Bats Global Markets, Inc., Direct Edge LLC, and Bats Hotspot LLC) relating to the subject matter hereof.

"Agreement" shall mean this Bats Global Markets Data Agreement, including any attachments or documents referenced or incorporated herein, as may be amended, modified, or supplemented from time to time.

"Bats Specifications" shall mean the written specifications, as may be amended, modified, or supplemented from time to time, for the System with which Data Recipient's system must comply.

"Claims and Losses" shall mean any and all liabilities, obligations, losses, damages, penalties, claims, actions, suits, costs, judgments, settlements and expenses of any nature, whether incurred by or issued against an indemnified party or a third-party, including, without limitation, (a) indirect, special, punitive, consequential or incidental loss or damage, and (b) reasonable administrative costs, investigatory costs, litigation costs and auditors' and attorneys' fees and expenses (including in-house personnel).

"Connectivity Fees" shall mean fees charged specifically for connecting to Exchange in order to receive Exchange Data.

"Data Feed Subscriber" shall mean any Data User outside of Data Recipient that (a) receives Exchange Data from Data Recipient and (b) for which Data Recipient cannot substantially control Exchange Data for the purpose of reporting usage or qualification.

"Data Fees" shall mean fees charged in connection with the use or redistribution of Exchange Data.

"Data Recipient" shall mean the data recipient referenced below and its affiliates, as identified in writing to MDX. The term "Data Recipient" includes (a) any Person that receives and uses Exchange Data for internal purposes only, and (b) any Person that receives and distributes Exchange Data, in each case pursuant to and in accordance with the terms and conditions of this Agreement and Exchange Requirements.

"Data Recipient Account Agreement" shall mean an agreement with an External Subscriber that (a) governs the accounts held by the External Subscriber with Data Recipient through which the External Subscriber is entitled to access Exchange Data, including any limitations on an External Subscriber's right to redistribute Exchange Data, and (b) protects MDX and the MDX Indemnified Parties to the same extent as if Data Recipient had presented and the External Subscriber had signed a Subscriber Agreement as per the applicable Exchange Requirements.

"Data Recipient Indemnified Parties" shall mean, collectively, Data Recipient and its subsidiaries, affiliates and its and their respective owners, officers, directors, employees, and agents.

"Data Recipient Invoiced Subscribers" shall mean any Data User that, per MDX's decision, are charged or assessed by Data Recipient for Exchange Data.

"Data User" shall mean any Person that receives Exchange Data from Data Recipient.

"Exchange" and **"Exchanges"** shall mean, individually or collectively, Bats BZX Exchange, Inc., Bats BYX Exchange, Inc., Bats EDGA Exchange, Inc., Bats EDGX Exchange, Inc., and Bats Hotspot LLC.

"Exchange Data" shall mean certain data and other information disseminated relating to securities or other financial instruments, products, vehicles, currencies, or devices; or relating to Persons regulated by an Exchange or to activities of an Exchange; or gathered by MDX from other sources, in each case (other than foreign trading currency data) sourced by MDX within the U.S.

"**Exchange Requirements**" shall mean (a) the rules, regulations, interpretations, decisions, opinions, orders and other requirements of the Securities Exchange Commission or other regulatory authorities, as may be applicable; (b) the rules and regulations, disciplinary decisions and rule interpretations applicable to the Exchanges; (c) the Exchanges' decisions, policies, interpretations, user guides, operating procedures, specifications (including without limitation the Bats specifications), requirements and other documentation that is regulatory or technical in nature published on Bats Global Markets' Website or a successor website (the "Website"); and (d) all other applicable laws, statutes, rules, regulations, orders, decisions, interpretations, opinions and other requirements.

"External Subscriber" shall mean any Data User not affiliated with Data Recipient that receives Exchange Data where Data Recipient can substantially control Exchange Data for the purpose of reporting usage or qualification.

"Internal Subscriber" shall mean any Data User affiliated with Data Recipient that receives Exchange Data where Data Recipient can substantially control Exchange Data for the purpose of reporting usage or qualification.

"MDX" shall mean, collectively, Market Data Express, LLC, a Delaware limited liability company, with its principal offices at 400 South LaSalle Street, Chicago, Illinois 60605, and its affiliates, including, without limitation, the Exchanges.

"MDX Indemnified Parties" shall mean, collectively, MDX and its subsidiaries, affiliates, and its and their respective owners, officers, directors, employees, and agents.

"MDX Invoiced Subscribers" shall mean any Data User that MDX, or one of its affiliates, chooses to invoice directly, as distinguished from Data Recipient Invoiced Subscribers.

"Person" shall mean any individual, corporation, limited liability company, trust, joint venture, association, company, limited or general partnership, unincorporated organization, or other entity.

"Redistributor" shall mean another distributor from which Data Recipient receives Exchange Data and for which such distributor cannot substantially control the Exchange Data received by Data Recipient for purposes of reporting usage and qualification.

"Service Facilitator" shall mean a Person receiving Exchange Data from Data Recipient for the sole purpose of facilitating dissemination of Exchange Data through Data Recipient's service in accordance with the terms and conditions of this Agreement.

"Subscriber Agreement" shall mean any agreement that MDX may require Data Recipient to obtain from an External Subscriber prior to Data Recipient providing such External Subscriber with Exchange Data.

"System" shall mean the system MDX or its affiliates has developed for creation and/or dissemination of Exchange Data.

"System Description" shall mean the Bats Global Markets Data Feed Order Form and System Description and/or Direct Edge System Description/Data Feed Request, as applicable, and any other description of Data Recipient's system for receiving, transmitting and disseminating Exchange Data that is provided to and approved by MDX.

"User Agreement" shall mean an agreement by and between Data Recipient and the Exchange, pursuant to which Data Recipient has the right to access the Exchange to, among other things, enter orders on the Exchange, receive status updates on orders, cancel orders, and execute trades against orders on the Exchange limit order book, as such agreement may be amended, modified, or supplemented from time to time.

2. Exchange Users. All rights under this Agreement granted to any Data Recipient that is also party to a User Agreement are granted subject to the terms and conditions of this Agreement and are in addition to the rights granted to Data Recipient under the User Agreement.

If Data Recipient is a member of an Exchange, then Data Recipient expressly acknowledges and agrees that (a) this Agreement does not limit or reduce in any way Data Recipient's obligations and responsibilities as a member of any

applicable Exchange; (b) this Agreement does not in any way alter the procedures or standards generally applicable to disciplinary or other actions taken by MDX to enforce compliance with, or impose sanctions for violations of, applicable Exchange Requirements; and (c) the nonpayment of amounts due under this Agreement could result in the suspension or cancellation of Data Recipient's membership on an Exchange in accordance with applicable Exchange Requirements.

3. Other Recipients. If Data Recipient has not entered into a User Agreement with the Exchange, by signing this Agreement, Data Recipient has the right to access the Exchange to receive data feeds from the Exchange for internal purposes and for the distribution of, or otherwise enabling access (directly or indirectly) to, Exchange Data, as described in Data Recipient's System Description and approved by MDX and not for any purpose inconsistent with the terms of this Agreement.

4. Use of Exchange Data. MDX hereby grants to Data Recipient a worldwide, non-exclusive, non-transferable license to: (a) copy, store, process, commingle, and use any Exchange Data received (i) directly from the Exchange; (ii) through an approved extranet; (iii) through an authorized data feed provider (i.e., a Redistributor); or (iv) otherwise, and (b) distribute Exchange Data in any form by means of any current or future product or service of the Data Recipient in any media, in accordance with the terms of this Agreement and Exchange Requirements, as available on the Website and as may be amended, modified, or supplemented from time to time. Data Recipient shall ensure that the Exchange Data is clearly attributed as originating from the applicable Exchange.

Furthermore, Data Recipient represents and warrants that the detailed description of its system for receiving, transmitting and disseminating Exchange Data, as described in its System Description, including, but not limited to, the data processing equipment, software and communications facilities related thereto, is true, complete and not misleading, and that Data Recipient and Data User are authorized to receive and use the Exchange Data only for the purposes set forth in this Agreement and applicable Exchange rules and Exchange Requirements. Any use of the Exchange Data by Data Recipient and Data User, including, but not limited to, distribution or reprocessing, unless expressly described in Data Recipient's System Description and approved by MDX, is prohibited. Data Recipient acknowledges and represents that it shall not use the Exchange Data at any time in contravention of the Exchange Requirements, including, and without limitation, the restriction on the display of information as set forth in Section 603(c) of Regulation NMS.

Should Data Recipient intend to make any material change to its System Description or in Data Recipient's use of the Exchange Data (including, but not limited to, redistribution and reproduction) in any manner not then described in Data Recipient's System Description, Data Recipient may only do so with MDX's prior written approval of Data Recipient's revised System Description and subject to payment of applicable fees. MDX shall promptly and in good faith approve or disapprove proposed modifications to Data Recipient's System Description. Data Recipient acknowledges and agrees that it acts at its own risk in developing any modification to its service and/or systems prior to receiving approval from MDX in accordance with this Section 4. Data Recipient is not required to notify MDX of non-material changes to its System Description.

5. Record Retention by Data Recipient. Data Recipient shall maintain complete and accurate records relating to the receipt of Exchange Data in accordance with the Exchange Requirements and other such information as MDX from time to time may reasonably request in writing.

6. Reporting. Data Recipient shall comply with the requirements of MDX as to usage reporting as MDX requires from time to time in writing. Unless otherwise provided by MDX, Data Recipient shall use reasonable efforts to provide such reporting within 15 days of the end of the applicable reporting period set forth by MDX but MDX shall not consider such reporting to be late until 45 days after the due date.

7. Proprietary Nature of Exchange Data. MDX represents that Exchange Data and the System constitute valuable proprietary information and rights of MDX and the Exchanges. Data Recipient expressly acknowledges and agrees that, as between MDX and Data Recipient, MDX has the exclusive proprietary rights in and to the System and Exchange Data that (a) originates on or relates to trading on any of MDX's markets; (b) relates to activities that are regulated or operated by one or more of the Exchanges; (c) MDX derives from Exchange Data that originates on or relates to any of the Exchanges; and (d) is a compilation or other rights in information and data that MDX gathers from other sources pursuant to separate agreements with those sources. The System and all Exchange Data, including without limitation any and all intellectual property rights inherent therein or appurtenant thereto, shall, as between MDX and Data Recipient, be and remain the sole and exclusive property of MDX. Data Recipient shall not, by act or omission, diminish or impair in any manner the acquisition, maintenance and full enjoyment by MDX, its licensees, transferees and assignees, of the proprietary rights of MDX in Exchange Data and the System. Data Recipient acknowledges and agrees that third party information providers who provide information, goods and services to MDX in connection with the creation of Exchange Data have

exclusive rights in their respective information and data. MDX makes no proprietary claim to any information derived from Exchange Data by Data Recipient.

8. Right to Deny Distribution. MDX retains the right to direct Data Recipient to terminate any external distribution of Exchange Data for any reason or no reason, in which event MDX shall notify Data Recipient and Data Recipient shall cease retransmitting Exchange Data as soon as commercially practicable.

9. Use of Name. MDX shall not: (a) advertise, publicly announce or otherwise state that it is providing services to Data Recipient or its affiliates or (b) use the name of Data Recipient or any affiliate thereof in any advertising or promotional materials, including but not limited to, any published list of data recipients or other clients in its Website displays, without the prior written consent of Data Recipient.

10. Right to Audit. During the term of this Agreement and for a period 12 months thereafter, Data Recipient shall make its premises available to MDX or its appointed agent for physical inspection of Data Recipient's use of Exchange Data (including review of any records regarding the use of, or redistribution of, the Exchange Data and locations where the Exchange Data is being received), during normal business hours, upon reasonable advance notice, to verify the accuracy of reports in accordance with Exchange Requirements and to ensure that the type and amount of fees, if any, calculated or stated to be payable to MDX are complete and accurate. While on Data Recipient's premises, MDX or its appointed designee shall comply with Data Recipient's written standard security policies and procedures to the extent made known by Data Recipient to MDX or its appointed designee. In no event will MDX or its appointed agent audit Data Recipient more than once in any 12 month period, unless necessary due to a reasonable suspicion of non-compliance with any material provision of this Agreement. Data Recipient shall comply promptly with any reasonable request from MDX for information regarding Data Recipient's receipts, usage, processing, display and redistribution of Exchange Data. The costs of such audit shall be borne by MDX unless such audit reveals an underpayment by Data Recipient of 10% or more or a material breach of the rights or licenses granted to Data Recipient under this Agreement; in such case, Data Recipient shall reimburse MDX for its costs and expenses in conducting such audit, to the extent that such costs and expenses are commensurate with industry standards.

11. Qualification Requirements; Data Recipient Indemnification. Except as otherwise set forth in this Agreement, Data Recipient shall only furnish, or cause or permit to be furnished, all or any part of Exchange Data to a Data User who, at the time of receipt thereof, is of a type qualified (as set forth in applicable Exchange Requirements) to receive Exchange Data from Data Recipient. Data Recipient agrees that MDX may have different qualification requirements for different Data Users.

Data Recipient may have an obligation to obtain an executed Subscriber Agreement from External Subscribers or cause Data Feed Subscribers to execute a Bats Global Markets Data Agreement with MDX. Data Recipient shall have no obligation to obtain an executed Subscriber Agreement from External Subscribers if Data Recipient represents and warrants that it has, or will have in place before distributing Exchange Data to any External Subscriber, a legally valid and enforceable Data Recipient Account Agreement with such External Subscriber.

Data Recipient may use a Service Facilitator to facilitate the dissemination of Exchange Data in Data Recipient's service, provided that Data Recipient has a legally valid and enforceable contract with such Service Facilitator, prior to distributing any Exchange Data to any Service Facilitator, that: (a) includes all limitations on the Service Facilitator's right to redistribute Exchange Data; and (b) protects MDX and the MDX Indemnified Parties to the same extent as if the Service Facilitator had signed a Bats Global Markets Data Agreement with MDX directly.

Data Recipient shall indemnify MDX, all MDX Indemnified Parties and any third parties that provide information, goods, and services to MDX in connection with the creation of Exchange Data against any assertion of claims or losses relating against the MDX Indemnified Parties made by an External Subscriber who receives Exchange Data from Data Recipient (or any Person relying upon Exchange Data received by such a Data User) arising from Data Recipient's election to distribute Exchange Data to such External Subscriber pursuant to this Section 11 rather than presenting the Subscriber Agreement to such Persons. In terms of recordkeeping and retention, Data Recipient Account Agreements shall be subject to applicable Exchange Requirements. In the event of a dispute with Data User(s) relating to Exchange Data, Data Recipient agrees to provide MDX with copies of the relevant portions of the Data Recipient Account Agreements. In the text of a Subscriber Agreement, Data Recipient may be referenced as "Vendor".

If any Data User fails to comply with any of the terms or conditions of this Agreement applicable to Data Users, its agreement with Data Recipient for Exchange Data, or any other agreement between Data User and MDX (including the Additional Agreements), or has made any representation in any such agreement which was or has become untrue, then Data Recipient

shall, within 5 business days after receipt of notice from MDX of such failure or untruth, cease providing Exchange Data to such Data User and shall, within 10 business days following the receipt of such notice, confirm such cessation by notice to MDX. Data Recipient shall be solely responsible for the acts and omissions of Internal Subscribers. If a Data User is to be terminated under this provision, then MDX will request all Data Recipients to cease providing Exchange Data to such Data User.

12. Modifications; Fees. Data Recipient acknowledges and agrees that nothing in this Agreement constitutes an undertaking by MDX to continue: (a) Exchange Data, the System, or any aspect of either, in the present form or configuration or under the current Bats Specifications; or (b) to use existing communications facilities. MDX, in its sole discretion, may make modifications, additions, and/or deletions: (i) to Exchange Data, the System, or any aspect of either; (ii) to the Bats Specifications; (iii) to its communications facilities; or (iv) to MDX's decisions, policies, operating procedures, requirements, and other documentation (including, but not limited to, specifications, user guides and the Additional Agreements). MDX will use commercially reasonable efforts to provide Data Recipient with at least 60 days' notice of any material modification, addition, or deletion, except to the extent a shorter period is: (x) required due to any situation that necessitates modifications, additions, or deletions on an accelerated basis or otherwise precludes such advance notice, or (y) required pursuant to an order of a court, an arbitrator or a regulatory agency.

Data Recipient agrees to make timely payment of Connectivity Fees and Data Fees, as well as any applicable late fees for the failure to make payment within the required time period. The amount of applicable Connectivity Fees and Data Fees shall be set forth in Exchange rules or posted on the Website. Connectivity Fees and Data Fees are payable within 30 days of the invoice date. Data Recipient will be solely responsible for any and all other telecommunications costs and all other expenses incurred in connecting to and maintaining its connection to, Exchange. Failure to make payments within 30 days from the invoice date may result in suspension or termination of distribution of Exchange Data by MDX to Data Recipient. Data Recipient agrees to pay MDX 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. Subject to the Act, MDX reserves the right to change its fee schedule, including Connectivity Fees and Data Fees applicable to Data Recipient. MDX will use commercially reasonable efforts to provide advance notice to Data Recipient (delivered via email and posted to the Website) of any changes to Connectivity Fees. MDX will use commercially reasonable efforts to provide at least 60 days advance notice to Data Recipient (delivered via email and posted to the Website) of any changes to Data Fees, provided, however, that such notice shall be not less than 30 days prior to the effectiveness of the change. **Receipt or use of Exchange Data after the applicable notice period for any modification, addition, or deletion shall constitute acceptance of Exchange Data, Connectivity Fees, Data Fees, the System, the Bats Specifications, or other decisions, policies, operating procedures, requirements, and other documentation as so changed.**

All Data Users shall be either Data Recipient Invoiced Subscribers or MDX Invoiced Subscribers. Data Recipient is not required to actually invoice Data Recipient Invoiced Subscribers, but, in any event, Data Recipient shall be responsible for the charges associated with the Data Recipient Invoiced Subscribers. Data Recipient shall bear all risk of non-payment by Data Recipient Invoiced Subscribers or by Data Users for whom Data Recipient is responsible for the charges. MDX will bear the risk of non-payment by MDX Invoiced Subscribers. Data Recipient shall reasonably cooperate with MDX in any lawful efforts by MDX to collect unpaid charges due MDX from current or former MDX Invoiced Subscribers. Data Recipient may choose to pay MDX any charges due on behalf of any Data User. Upon Data Recipient's payment to MDX on behalf of any Data User of any charges due hereunder, Data Recipient shall be subrogated to any and all rights of MDX to recover such charges.

In addition, for Data Recipient Invoiced Subscribers, Data Recipient shall pay any taxes, charges or assessments (other than taxes imposed on the net income of MDX) by any foreign or domestic national, state, provincial or local government bodies, or subdivisions thereof relating to the provision of Exchange Data pursuant to this Agreement, and any related penalties or interest. In addition, if Data Recipient or any Data Recipient Invoiced Subscriber is required by applicable law to deduct or withhold any such tax, charge or assessment from the amounts due MDX, then such amounts due shall be increased so that the net amount actually received by MDX after the deduction or withholding of any such tax, charge or assessment, will equal one hundred percent (100%) of the charges that are owed.

13. Term and Termination. This Agreement, subject to earlier termination in accordance with its terms, shall continue until it is terminated either by Data Recipient on not less than 30 days' written notice to MDX or by MDX on not less than 60 days' written notice to Data Recipient. Notwithstanding the foregoing, this Agreement may be terminated immediately upon written notice by MDX in the event that (a) Data Recipient is not permitted or not able to receive or MDX is prevented from disseminating Exchange Data, or any part thereof; (b) any representation, warranty or certification made by Data Recipient in this Agreement or in any other document furnished by Data Recipient is, as of the time made or furnished, materially false or misleading; (c) Data Recipient proceeds with a proposed action which would result in a default of its obligations or

covenants under this Agreement or in a breach of any representation, warranty or certification, which is material to MDX for regulatory, commercial or other reasons, made by Data Recipient in connection herewith, after MDX has notified Data Recipient in writing that such proposed action would constitute a default or breach hereunder; or (d) MDX, in its sole reasonable discretion, determines that any failure on the part of Data Recipient to comply with this Agreement has or is likely to have a materially adverse impact on the operation or performance of the System, Exchange Data or any Exchange, or likely to cause disproportionate harm to MDX's interests should termination be delayed. The following Sections will survive the termination or expiration of this Agreement for any reason: 1, 6, 7, 9, 10, 11, 12, 13, 14, 15, 16, 17, 20, 22, 23, 24, and 26. Any terms and conditions of the Additional Agreements incorporated herein by reference which by their terms are stated to survive the termination or expiration of such Additional Agreements shall survive the termination or expiration of this Agreement.

14. Confidentiality. Under this Agreement, MDX (and any MDX designee conducting an audit pursuant to this Agreement) shall keep confidential Data Recipient's System Description and Data Recipient's records, reports and payments that MDX or its designee has reviewed or audited, and any other Data Recipient information or material reasonably considered to be of a confidential nature (whether or not designated as such), as well as any and all information received in connection with this Agreement, including but not limited to, business, financial, operational, product, service and other information. Data Recipient acknowledges that it may also obtain confidential information, data, or techniques of MDX (whether or not designated as such). All such confidential information, whether written or oral, shall be deemed confidential upon disclosure to the recipient. Except as otherwise set forth herein, the recipient shall use such confidential information solely for use consistent with the purposes of this Agreement; shall hold such confidential information in confidence; and shall not use, disclose, copy, or publish any such confidential information without the prior written approval of the disclosing party. The recipient shall take reasonable security precautions, including at least as great as the precautions it takes to protect its own confidential information, but no less than reasonable care, to keep confidential the confidential information of the disclosing party. The recipient shall notify the disclosing party immediately upon discovery of any unauthorized use or disclosure of confidential information, and will cooperate with disclosing party in every reasonable way to help disclosing party regain possession of the confidential information and prevent its further unauthorized use or disclosure. The parties acknowledge that monetary damages may not be a sufficient remedy for unauthorized disclosure of confidential information, and that disclosing party shall be entitled, without waiving any other rights or remedies, to such injunctive or equitable relief as may be deemed proper by a court of competent jurisdiction.

Notwithstanding anything herein to the contrary, MDX or Data Recipient may disclose confidential information to the extent: (a) demanded by a court, arbitrator or government agency with regulatory jurisdiction over one or more of MDX's markets or over Data Recipient or any judicial or government order; (b) necessary to fulfill any MDX or Data Recipient regulatory responsibility, including any responsibility over members and associated Persons under the Act; or (c) necessary for MDX or Data Recipient and their respective employees, directors, and other agents to use such confidential information consistent with the purposes of this Agreement. If a party is required to disclose information pursuant to clauses (a) and (b) immediately above, such party shall notify the disclosing party in writing, to the extent permitted by law or regulation, of such requirement prior to disclosing such information and provide the original disclosing party, at its expense, with an adequate opportunity to obtain a protective order or other reliable assurance that confidential treatment will be accorded to the confidential information. The duties in this Section 14 do not apply to data, information or techniques that: (i) were lawfully in a party's possession prior to the date of this Agreement, provided the source of that information was not known by recipient to be bound by a confidentiality agreement with or other continual, legal or fiduciary obligation of confidentiality to disclosing party; (ii) is now, or hereafter becomes, through no act or failure to act on the part of recipient, generally known to the public; (iii) is rightfully obtained by recipient from a third party so long as the party does not know that the third party has breached any obligation not to reveal such data, information, or techniques; or (iv) can be demonstrated was independently developed by recipient without use or reference to the confidential information. All confidential information is and shall remain the property of the disclosing party. By disclosing confidential information to recipient, disclosing party does not grant any express or implied right to recipient to or under any patents, copyrights, trademarks, or trade secret information.

MDX shall not disclose its audit findings to any third parties (other than to its directors and independent consultants or subcontractors who are subject to confidentiality obligations or as otherwise set forth herein) and all information learned in connection with an audit shall constitute Data Recipient's confidential information. Notwithstanding the foregoing, nothing herein shall prevent MDX from using the audit findings to the extent the findings are used in the aggregate with other information and such aggregation does not (a) specifically identify Data Recipient or (b) create a context where Data Recipient's identity may be reasonably inferred.

15. LIMITATION OF LIABILITY; DISCLAIMER OF WARRANTIES. Absent fraud or willful misconduct by MDX, or a claim arising out of MDX's indemnification or confidentiality obligations set forth herein, MDX, its officers, directors, shareholders, employees, agents and consultants shall not be liable to Data Recipient or its affiliates, or to any Data User

or its affiliates, for any inaccurate or incomplete Exchange Data received from MDX or from a Redistributor, any delays, interruptions, errors, or omissions in the furnishing thereof, or any direct, indirect or consequential damages arising from or occasioned by said inaccuracies, delays, interruptions, errors or omissions. DATA RECIPIENT EXPRESSLY ACKNOWLEDGES THAT EXCHANGE DATA AND ANY AND ALL MATERIAL RELATED TO EXCHANGE DATA, INCLUDING BUT NOT LIMITED TO THE SYSTEM AND MDX SPECIFICATIONS, ARE BEING PROVIDED "AS IS." DATA RECIPIENT EXPRESSLY ACKNOWLEDGES THAT MDX DOES NOT MAKE ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, WITH RESPECT TO EXCHANGE DATA, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR ANY WARRANTIES OF MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE. ABSENT FRAUD OR WILLFUL MISCONDUCT BY MDX, ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS AND CONSULTANTS SHALL NOT BE LIABLE TO DATA RECIPIENT, OR TO ANY RECIPIENT OF EXCHANGE DATA REDISTRIBUTED BY DATA RECIPIENT, FOR INDIRECT, CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR PUNITIVE DAMAGES OF ANY NATURE, INCLUDING BUT NOT LIMITED TO, LOSS OF OR DAMAGE TO DATA, LOSS OF BUSINESS OR LOST PROFITS, ARISING FROM ANY CAUSE WHATSOEVER, EVEN IF MDX HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES. ABSENT FRAUD OR WILLFUL MISCONDUCT BY DATA RECIPIENT, OR A CLAIM ARISING OUT OF DATA RECIPIENT'S INDEMNIFICATION OR CONFIDENTIALITY OBLIGATIONS SET FORTH HEREIN, DATA RECIPIENT, ITS OFFICERS, DIRECTORS, EMPLOYEES, AGENTS AND CONSULTANTS SHALL NOT BE LIABLE FOR INDIRECT, CONSEQUENTIAL, EXEMPLARY, SPECIAL, INCIDENTAL OR PUNITIVE DAMAGES OF ANY NATURE ARISING FROM ANY CAUSE WHATSOEVER, EVEN IF DATA RECIPIENT HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

16. Indemnification by Data Recipient. Absent fraud or willful misconduct by MDX or a claim arising out of MDX's indemnification or confidentiality obligations set forth herein, Data Recipient and its affiliates agree to indemnify and hold harmless MDX Indemnified Parties from and against any and all Claims and Losses imposed on or asserted against MDX Indemnified Parties by a third party resulting from, in connection with, or arising out of (a) any failure of Data User to comply with the terms and conditions of any MDX required agreement for Exchange Data if Data Recipient has failed to notify MDX in writing of such non-compliance within 10 days after Data Recipient knows of such non-compliance (unless such Data User is a party to a Bats Global Markets Data Agreement); (b) any assertion of Claims and Losses relating to this Agreement against any MDX Indemnified Party made by any Data User (or any third party relying upon Exchange Data received by such Data User, unless such Data User is party to a Bats Global Markets Data Agreement); (c) the receipt, use, or redistribution of Exchange Data in breach hereof by Data Recipient or its affiliates; and (d) any failure by Data Recipient or its affiliates to comply with its obligations under this Agreement; provided that: (i) MDX promptly notifies Data Recipient in writing of any claim, action, or allegation; however, failure to promptly notify Data Recipient of a claim shall not relieve Data Recipient of its indemnification obligations hereunder except to the extent that such failure prejudices the rights of Data Recipient; (ii) Data Recipient shall have sole control of the settlement and defense of any action to which this indemnity relates, but, upon MDX's request, shall inform MDX of the status of any proceedings or negotiations; and (iii) MDX reasonably cooperates to facilitate such defense. Data Recipient, in defending any such claim, action or allegation, except with the written consent of MDX Indemnified Parties, shall not consent to entry of any judgment or enter into any settlement which (A) does not include, as an unconditional term, the grant by the claimant to the MDX Indemnified Parties of a release of all liabilities in respect to such claim, action, or allegation and (B) subjects MDX Indemnified Parties to any obligation in addition to those set forth herein.

17. Indemnification by MDX. MDX agrees to indemnify, defend and hold harmless Data Recipient Indemnified Parties from and against all Claims and Losses imposed on or asserted against a Data Recipient Indemnified Party by a third party resulting from, in connection with, or arising out of a claim that Exchange Data, or Data Recipient's use thereof, or the System infringes any copyright, patent, trademark, trade secret or other intellectual property right; provided that: (a) Data Recipient promptly notifies MDX in writing of any claim, action, or allegation; however, failure to promptly notify MDX of a claim shall not relieve MDX of its indemnification obligations hereunder except to the extent that such failure prejudices the rights of MDX; (b) MDX shall have sole control of the settlement and defense of any action to which this indemnity relates, but, upon Data Recipient's request, shall inform Data Recipient of the status of any proceedings or negotiations; and (c) Data Recipient reasonably cooperates to facilitate such defense. MDX, in defending any such claim, action or allegation, except with the written consent of Data Recipient Indemnified Parties, shall not consent to entry of any judgment or enter into any settlement which (A) does not include, as an unconditional term, the grant by the claimant to the Data Recipient Indemnified Parties of a release of all liabilities in respect to such claim, action, or allegation and (B) subjects Data Recipient Indemnified Parties to any obligation in addition to those set forth herein.

MDX shall not have the obligation to indemnify, defend and hold harmless Data Recipient's Indemnified Parties for any and all Claims and Losses imposed on, incurred by or asserted against a Data Recipient Indemnified Party as a result of any allegation of infringement or misappropriation if the System, Exchange Data, or any Bats Specifications have not been used in accordance with this Agreement which resulted in such infringement or misappropriation, or if Data Recipient uses the

System, Exchange Data, or any Bats Specifications after MDX notifies Data Recipient of a potential or actual infringement claim or to the extent it is based on use of a superseded version of the System, Exchange Data, or any Bats Specifications if such infringement or misappropriation would have been avoided by use of the current version of the System, Exchange Data, or Bats Specifications or if the infringement or misappropriation claim, action, or allegation is the result of the combination, operation, or use of the System furnished timely to Data Recipient by MDX, Exchange Data, or any Bats Specifications with hardware, software, or materials if such infringement or misappropriation would have been avoided by the use of the System, Exchange Data, or any Bats Specifications without such hardware, software, or materials.

In the event of a claim, action or allegation of infringement or misappropriation or if, in MDX's reasonable opinion, such a claim, action or allegation is likely to occur or if the use of the System, Exchange Data, or any Bats Specifications is enjoined because of infringement or misappropriation, MDX may, at its sole option and expense, (i) procure for Data Recipient the right to continue using the System, Exchange Data, or any Bats Specifications; (ii) replace or modify the System, Exchange Data, or any Bats Specifications to be non-infringing, and require the return of the potentially infringing or misappropriating items, if applicable, without liability to Data Recipient or any other third party; or (iii) terminate this Agreement immediately without liability to Data Recipient (other than indemnification by MDX in accordance with this Section) or any third party.

This Section sets forth the entire liability of MDX and the exclusive remedy of Data Recipient for the infringement or misappropriation of intellectual property by MDX.

18. Assignment. This Agreement shall inure to the benefit of and shall be binding upon the parties hereto and their respective permitted successors and assigns. Data Recipient may not assign this Agreement without the prior written consent of MDX; provided, however, that MDX shall not unreasonably withhold such consent. Notwithstanding the foregoing, Data Recipient may assign this Agreement to (a) an affiliate or subsidiary; (b) a successor of Data Recipient, by consolidation, merger, or operation of law; or (c) a purchase of all or substantially all of Data Recipient's assets, in each case without the prior written consent of MDX, provided that Data Recipient (a) is not currently in breach of this Agreement or delinquent in any fees owed to MDX hereunder and (b) provides prior written notice to MDX. MDX may, as permitted by the Act, assign or transfer this Agreement or any of its rights or obligations hereunder to a related or an unrelated party upon prior written notice to Data Recipient.

19. 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.

20. 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, and such provision shall be construed to be effective and valid to the fullest extent under applicable law.

21. Relationship of the Parties. Nothing herein shall be construed to create a joint venture or partnership between the parties hereto. Neither party hereto shall have any express or implied right or authority to assume or create any obligations on behalf of or in the name of the other party or to bind the other party to any contract, agreement, or undertaking with any third party.

22. Entire Agreement; Priority Rules; Amendment; Waiver. Notwithstanding anything in this Agreement to the contrary, the terms and conditions of any applicable Additional Agreements entered into by Data Recipient with the Exchange shall be incorporated herein by reference, and, together with this Agreement, shall constitute the complete and entire statement of all conditions and representations of the agreement between MDX and Data Recipient with respect to its subject matter and supersedes all prior writings or understandings, including, without limitation, any Exchange Data Vendor Agreement entered into with the Exchanges. If there is any conflict or inconsistency between this Agreement and any of the Additional Agreements with respect to the receipt or use of Exchange Data as contemplated herein, the following order of precedence shall apply, to the extent applicable to Data Recipient: (a) the Price List or Fee Schedule; (b) the Bats Global Markets Data Feed Order Form and System Description, the Hotspot Data Feed Order Form and System Description and/or the Direct Edge System Description/Data Feed Request, as applicable; (c) this Agreement; (d) the User Agreement; and (e) any additional terms and conditions, policies or agreements entered into by Data Recipient with MDX or any of its affiliates (including without limitation Bats Global Markets, Inc., Direct Edge LLC, and Bats Hotspot LLC) relating to the subject matter hereof.

Except as may otherwise be set forth in this Agreement, MDX may alter any term or condition of this Agreement or the Subscriber Agreement on 60 days' prior written notice to Data Recipient, and any receipt or use of Exchange Data after

such date is deemed acceptance of the new term or condition. The means of notifying Data Recipient of such new term or condition may include, but not be limited to, emailing such term or condition to Data Recipient or posting such alteration on the Website or a successor site upon written notice to Data Recipient. No failure on the part of MDX or Data Recipient to exercise, no delay in exercising, and no course of dealing with respect to any right, power, or privilege under the Agreement shall operate as a waiver thereof, nor shall any single or partial exercise of any such right, power, or privilege preclude any other or further exercise thereof or the exercise of any other right, power, or privilege under this Agreement.

23. Governing Law; Venue. This Agreement will be governed by and interpreted in accordance with the laws of the State of New York without giving effect to any choice or conflict of law provision or rule. Both parties submit to the jurisdiction of the state and federal courts in and for the State of New York for the resolution of any dispute arising under this Agreement.

24. Affiliates. Notwithstanding anything to the contrary in this Agreement, any affiliate of the Data Recipient is entitled to exercise the rights of Data Recipient set forth herein on behalf of itself, the Data Recipient, or any other affiliate of the Data Recipient, including, but not limited to, rights to use and distribute Exchange Data to other parties, subject to the terms of this Agreement. If this Agreement will be applicable to an affiliate, Data Recipient must submit a list of any such affiliate(s) to MDX. By submitting the names of its affiliate(s), Data Recipient agrees that the contact information set forth herein shall be deemed to be the contact information for each affiliate and that DATA RECIPIENT SHALL ASSUME ALL RESPONSIBILITY FOR AND WILL HOLD HARMLESS AND INDEMNIFY MDX AGAINST ANY ACTION OR INACTION BY AN AFFILIATE AS IF SUCH ACTION OR INACTION WERE THAT OF DATA RECIPIENT, AND DATA RECIPIENT AND ITS AFFILIATE(S) SHALL BE JOINTLY AND SEVERALLY LIABLE FOR ALL ACTIONS AND/OR INACTIONS OF THE OTHER(S). All of the rights and licenses granted to, and all obligations of, Data Recipient under this Agreement will apply to such affiliate(s) to the same extent as applicable to Data Recipient.

For purposes of this Agreement, an "affiliate" of Data Recipient shall include any entity that, from time to time, directly or indirectly Controls, is Controlled by, or is under common Control with Data Recipient. "Control" means the power to direct or cause the direction of the management or policies of another entity, whether through the ownership of voting securities, by contract, or otherwise. The Data Recipient may delegate any of its responsibilities, obligations or duties under or in connection with this Agreement to any affiliate of the Data Recipient or an authorized third party agent, which may discharge those responsibilities, obligations or duties on behalf of the Data Recipient in accordance with this Agreement.

25. Headings. Section headings are included for convenience only and are not to be used to construe or interpret this Agreement. All references contained herein to sections or subsections shall refer to the sections or subsections of this Agreement, unless specific reference is made to the sections or subsections of another document.

26. Cumulative Remedies. Except as otherwise limited herein, all rights and remedies provided in this Agreement are cumulative and not exclusive, and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, equity, by statute, in any other agreement between the parties (including without limitation the Additional Agreements) or otherwise.

27. Counterparts. This Agreement may be executed in one or more counterparts, which shall each be considered an original but all of which shall constitute one and the same Agreement.

[Remainder of page intentionally left blank. Signature page follows.]

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

Data Recipient: _____

Signature: _____

Printed Name: _____

Title: _____

Market Data Express, LLC, on behalf of itself and its affiliates

Signature: _____

Printed Name: _____

Title: _____

Date: _____

Bats Global Markets
Data Feed Order Form and System Description

☐ Initial Form ☐ Amended Form ☐ Add/Remove Data Feed Subscription

DATA RECIPIENT INFORMATION		
Company Name:		Date:
Address of Principal Office:		
City:	State:	Zip Code:

BILLING ADDRESS		
Address of Billing Office:		
City:	State:	Zip Code:

BUSINESS CONTACT		BILLING CONTACT*	
Name:		Name:	
Title:		Title:	
Email:		Email:	
Phone:	Fax:	Phone:	Fax:

MARKET DATA ADMINISTRATOR**		TECHNICAL CONTACT	
Name:		Name:	
Title:		Title:	
Email:		Email:	
Phone:	Fax:	Phone:	Fax:

***The Billing Contact will be assigned a web log-in to manage the Data Recipient's monthly invoices via the Bats website.**
****The Market Data Administrator will be assigned a web log-in to manage the Data Recipient's monthly usage reporting.**

How will you receive Bats data?
- ☐ Directly from Bats or via an Extranet (complete Connectivity Section A)
- ☐ Through one or more Market Data Vendors (complete Connectivity Section B)
- ☐ Both (complete Connectivity Sections A and B)

CONNECTIVITY – SECTION A

BZX/BYX/EDGX/EDGA Data Center Location: ☐ Primary – Secaucus ☐ Secondary – Chicago ☐ PoP - Weehawken

Connection Type:

☐ New ☐ Existing

☐ Direct Connection (Co-Lo / Long Haul) ☐ 1G ☐ 10G ☐ Other: _____ Protocol ☐ Multicast ☐ TCP

☐ Extranet

- ☐ Interactive Data
- ☐ NYSE (SFTI)
- ☐ Radianz
- ☐ IPC
- ☐ SAVVIS, Inc.
- ☐ TMX Atrium Networks
- ☐ TNS
- ☐ Other: _____

CONNECTIVITY – SECTION B

Please identify all Vendors through which you will receive Bats Market Data:

DATA FEED SUBSCRIPTION / CHANGE REQUEST

Bats BZX Exchange, Inc. (BZX)

Data Feed (Protocol)	Add	Remove	Digital Media License***	Enterprise License***	Real-Time	Historical	Effective Date
BZX Depth (Multicast / TCP)	☐	☐			☐	☐	
BZX Top (TCP / API)	☐	☐	☐	☐	☐	☐	
BZX Last Sale (TCP)	☐	☐	☐	☐	☐	☐	
BZX Book Viewer (API)	☐	☐	☐	☐	☐		
BZX Summary Depth (Multicast)	☐	☐	☐	☐	☐	☐	
BZX Options Depth (Multicast)	☐	☐			☐	☐	

Bats BYX Exchange, Inc. (BYX)

Data Feed	Add	Remove	Digital Media License	Enterprise License	Real-Time	Historical	Effective Date
BYX Depth	☐	☐			☐	☐	
BYX Top	☐	☐	☐	☐	☐	☐	
BYX Last Sale	☐	☐	☐	☐	☐	☐	
BYX Book Viewer	☐	☐	☐	☐	☐		
BYX Summary Depth	☐	☐	☐	☐	☐	☐	

Bats EDGX Exchange, Inc. (EDGX)

Data Feed	Add	Remove	Digital Media License	Enterprise License	Real-Time	Historical	Effective Date
EDGX Depth	☐	☐			☐	☐	
EDGX Depth Attributed	☐	☐			☐		
EDGX Top	☐	☐	☐	☐	☐	☐	
EDGX Last Sale	☐	☐	☐	☐	☐	☐	
EDGX Book Viewer	☐	☐	☐	☐	☐		
EDGX Summary Depth	☐	☐	☐	☐	☐	☐	
EDGX Options Depth	☐	☐			☐	☐	

Bats EDGA Exchange, Inc. (EDGA)

Data Feed	Add	Remove	Digital Media License	Enterprise License	Real-Time	Historical	Effective Date
EDGA Depth	☐	☐			☐	☐	
EDGA Top	☐	☐	☐	☐	☐	☐	
EDGA Last Sale	☐	☐	☐	☐	☐	☐	
EDGA Book Viewer	☐	☐	☐	☐	☐		
EDGA Summary Depth	☐	☐	☐	☐	☐	☐	

Bats One Feed

Data Feed	Add	Remove	Digital Media License	Enterprise License	Real-Time	Historical	Effective Date
Bats One Summary (Multicast / TCP)	☐	☐	☐	☐	☐	☐	
Bats One Premium (Multicast / TCP)	☐	☐	☐	☐	☐	☐	

***Digital Media and Enterprise Licenses apply only to Exchange Top, Last Sale, Book Viewer, Summary Depth, and Bats One.

SYSTEM DESCRIPTION

Please provide a complete description of the system that makes use of Bats data, including the system name.

Name / Version of Data System: _____ Name/Version of Entitlement System _____

Please provide a description of the system that make use of the Data, and/or the Entitlement System:

Will your organization use Bats data internally? ☐ Yes ☐ No

Will your organization distribute Bats data to Affiliates****? ☐ Yes ☐ No
If yes, please complete the Bats Global Markets List of Affiliates.

**** "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.

Will your organization distribute Bats data externally? ☐ Yes ☐ No
If yes, is the data distribution ☐ Controlled ☐ Uncontrolled or ☐ Both
Please provide information for all Data Recipients receiving uncontrolled Bats data from your organization.

DATA USER INFORMATION			
Company Name:			Date:
Address of Principal Office:			
City:		State:	Zip Code:
BUSINESS CONTACT		TECHNICAL CONTACT	
Name:		Name:	
Title:		Title:	
Email:		Email:	
Phone:	Fax:		Fax:

DATA USER INFORMATION			
Company Name:			Date:
Address of Principal Office:			
City:		State:	Zip Code:
BUSINESS CONTACT		TECHNICAL CONTACT	
Name:		Name:	
Title:		Title:	
Email:		Email:	
Phone:	Fax:		Fax:

DATA FROM OPTIONS PRICING REPORTING AUTHORITY (OPRA)

Dissemination of Bats Options data is limited to parties who have equivalent access to Consolidated Options Information disseminated by OPRA for the same classes or series of options that are included in the Proprietary Information. Access to consolidated Options Information and access to Proprietary Information are deemed "equivalent" if both kinds of information are equally accessible.

Indicate whether you currently receive data from OPRA: ☐ Yes ☐ No

If yes, please indicate which vendor provides your OPRA data:_____

ADDITIONAL DATA FEEDS

HISTORICAL DATA

Data Recipients can subscribe to Bats Historical Depth of Book, Top of Book, and Last Sale data on a T+1 basis. Up to three months of data is available via download from the Bats website. Additional data can be uploaded to a 1TB hard drive for a single fee per drive.

A Bats web login account is required to subscribe to these Historical Data products. For assistance, please visit http://www.bats.com/us/equities/market_data_products/ or contact Bats Market Data Services at 212.378.8821 or marketdata@Bats.com.

OTHER DATA FEEDS

The Bats Auction Feeds will continue to be provided to Data Recipients upon request. To request a subscription, please contact Bats Market Data Services at 212.378.8821 or marketdata@Bats.com.

I certify that the information provided within the System Description is accurate.

Signature of Data Recipient Authorized Representative	Title
Printed Name	Date

Bats Global Markets
List of Affiliates

This List of Affiliates is for the Bats Global Markets Data Agreement.

"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.

By submitting the names of its Affiliate(s), Data Recipient agrees that the contact information set forth herein shall be deemed to be the contact information for each Affiliate, as may be modified by Data Recipient from time to time, and that DATA RECIPIENT SHALL ASSUME ALL RESPONSIBILITY FOR AND WILL HOLD HARMLESS AND INDEMNIFY MARKET DATA EXPRESS, LLC AND ITS AFFILIATES AGAINST ANY ACTION OR INACTION BY AN AFFILIATE OF DATA RECIPIENT AS IF SUCH ACTION OR INACTION WERE THAT OF DATA RECIPIENT, AND, DATA RECIPIENT AND ITS AFFILIATE(S) SHALL BE JOINTLY AND SEVERALLY LIABLE FOR ALL ACTIONS AND/OR INACTIONS OF THE OTHER(S).

Data Recipient may regard changes to the table below as accepted by MDX unless MDX notifies Data Recipient of an objection within 30 days of receipt of notification of the change.

NAME OF AFFILIATE	REGISTERED ADDRESS

**Attach additional page(s) as necessary.*

I certify that the information provided on this List of Affiliates is complete and accurate.

_____
Data Recipient Name

_____ _____
Signature of Data Recipient Authorized Representative Title

_____ _____
Printed Name Date

Bats Global Markets
Subscriber Agreement

Vendor may not modify or waive any term of this Agreement. Any attempt to modify this Agreement, except by Market Data Express, LLC or its affiliates (collectively, "MDX"), is void.

This Bats Global Markets Subscriber Agreement (this "Agreement"), with an effective date as of the last date executed on the signature page hereof, is made by and between the vendor referenced below ("Vendor") and the subscriber referenced below ("Subscriber").

1. Definitions. Capitalized terms used herein shall have the meanings set forth in this Section 1.

"Claims or Losses" shall mean any and all liabilities, obligations, losses, damages, penalties, claims, actions, suits, costs, judgments, settlements and expenses of any nature, whether incurred by or issued against an indemnified party or a third-party, including, without limitation, (a) indirect, special, punitive, consequential or incidental loss or damage, and (b) administrative costs, investigatory costs, litigation costs and auditors' and attorneys' fees and expenses (including in-house personnel).

"Exchange Data" shall mean certain data and other information relating to securities or other financial instruments, products, vehicles or devices; or relating to Persons regulated by MDX or to activities of MDX; or gathered by MDX from other sources.

"Non-Professional Subscriber" shall mean any natural person who is <u>not</u>: (a) registered or qualified in any capacity with the SEC, the Commodities Futures Trading Commission, any state securities agency, any securities exchange or association, or any commodities or futures contract market or association; (b) engaged as an "investment advisor" as that term is defined in Section 202(a)(11) of the Investment Advisors Act of 1940 (whether or not registered or qualified under that Act); or (c) employed by a bank or other organization exempt from registration under federal or state securities laws to perform functions that would require registration or qualification if such functions were performed for an organization not so exempt.

"Person" shall mean any individual, corporation, limited liability company, trust, joint venture, association, company, limited or general partnership, unincorporated organization, or other entity.

"Professional Subscriber" shall mean all other Persons who do not meet the definition of Non-Professional Subscriber.

"SEC" shall mean the U.S. Securities and Exchange Commission.

"Subscriber" shall mean, collectively, all Non-Professional Subscribers and Professional Subscribers.

"Vendor" shall mean "Data Recipient," as that term is defined in the Bats Global Markets Data Agreement, as may be modified from time to time.

"Vendor's Service" shall mean the service from a Vendor, including the data processing equipment, software, and communications facilities related thereto, for receiving, processing, transmitting, using, and disseminating Exchange Data to or by Subscriber.

2. Use of Data. Subscriber may not sell, lease, furnish or otherwise permit or provide access to Exchange Data to any other Person or to any other office or place. Subscriber will not engage in the operation of any illegal business use or permit anyone else to use Exchange Data, or any part thereof, for any illegal purpose or violation of any MDX or SEC rule or regulation. Subscriber may not present Exchange Data rendered in any unfair, misleading, or discriminatory format. Subscriber shall take reasonable security precautions to prevent unauthorized Persons from gaining access to Exchange Data.

<u>Use by Non-Professional Subscribers</u>. Exchange Data is licensed only for personal use by a Non-Professional Subscriber. By representing to Vendor that Subscriber is a Non-Professional Subscriber, or by continuing to receive Exchange Data at a Non-Professional Subscriber rate, Subscriber is affirming to Vendor and MDX that Subscriber meets the definition of Non-Professional Subscriber as set forth herein. A Non-Professional Subscriber shall comply promptly with

any reasonable request from MDX, or its designee, for information regarding the Non-Professional Subscriber's receipt, processing, display, use, and redistribution of Exchange Data.

Use by Professional Subscribers. Exchange Data is licensed for internal business use and/or personal use by a Professional Subscriber. Professional Subscriber may, on a non-continuous basis, furnish limited amounts of Exchange Data to customers in written advertisements, correspondence, or other literature during voice telephonic conversations not entailing computerized voice, automated information inquiry systems, or similar technologies. Professional Subscriber shall make its premises available to MDX, or its designee, for physical inspection of Vendor's Service and of Professional Subscriber's use of Exchange Data (including review of any records regarding use of or access to Exchange Data and the number and locations of all devices that receive Exchange Data), all at reasonable times and upon reasonable notice, to ensure compliance with this Agreement.

3. Proprietary Data. MDX grants to Subscriber a non-exclusive, non-transferable license during the term of the Agreement to receive Exchange Data distributed to it by Vendor and, thereafter, to use such Exchange Data as permitted under the terms of this Agreement and all applicable laws, statutes, rules, and regulations of MDX and the SEC, including but not limited to, MDX's rule filings, MDX's decisions and interpretations and any specifications or successors of such laws, statutes, rules, and regulations. Subscriber acknowledges and agrees that MDX and its affiliates have proprietary rights to Exchange Data that originates on or is derived from markets regulated or operated by MDX and compilation or other rights to Exchange Data gathered from other sources. Subscriber further acknowledges and agrees that MDX's third-party information providers have exclusive proprietary rights to their respective information. In the event of any misappropriation or misuse by Subscriber or anyone who accesses Exchange Data through Subscriber, MDX or its third-party information providers shall have the right to obtain injunctive relief for its respective materials. Subscriber shall attribute the source of Exchange Data as appropriate under all circumstances.

4. Payment. Subscriber shall assume full and complete responsibility for the payment of any taxes, charges, or assessments imposed on Subscriber or MDX (except for U.S. federal, state, or local incomes taxes, if any, imposed on MDX) by any foreign or domestic national, state, provincial, or local governmental bodies, or subdivisions thereof, and any penalties or interest relating to the provision of Exchange Data to Subscriber. Interest shall be due from the date of the invoice to the time that the amounts that are due have been paid. To the extent permitted by applicable law, Subscriber acknowledges and agrees that the termination of Vendor's Services for failure to make payments shall not be considered an improper limitation of access by MDX. For Professional Subscribers, if any payment is due directly to MDX under this Agreement, payment in full is due MDX in immediately available funds within 30 days of the date of an invoice, whether or not use is made of, or access it made to, Exchange Data. Subscriber agrees to pay MDX 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.

5. System. Subscriber acknowledges that MDX, in its sole discretion, may from time to time make modifications to its system or Exchange Data. Such modifications may require corresponding changes to be made to Vendor's Service. Changes or the failure to make timely changes by Vendor may sever, delay, or otherwise affect Subscriber's access to or use of Exchange Data. MDX shall not be responsible for any such effects. MDX does not endorse or approve any Vendor, Vendor's Service or equipment utilized by Vendor or Subscriber.

6. Limitation of Liability.

MDX, its officers, directors, shareholders, employees, agents and consultants shall not be liable to Subscriber or to any other Person for any inaccurate or incomplete Exchange Data received from MDX or from Vendor, any delays, interruptions, errors, or omissions in the furnishing thereof, or any direct, indirect or consequential damages arising from or occasioned by said inaccuracies, delays, interruptions, errors or omissions.

This Section shall not relieve MDX, Vendor, Subscriber, or any other Person from liability for damages that result from their own gross negligence or willful tortious misconduct or from personal injury or wrongful death claims.

MDX, Vendor, and Subscriber understand and agree that the terms of this Section reflect a reasonable allocation of risk and limitation of liability.

7. Disclaimer of Warranties. SUBSCRIBER EXPRESSLY ACKNOWLEDGES THAT MDX AND ITS THIRD-PARTY INFORMATION PROVIDERS DO NOT MAKE ANY REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, WITHOUT LIMITATION, ANY IMPLIED WARRANTIES OR ANY WARRANTIES OF MERCHANTABILITY, QUALITY OR FITNESS FOR A PARTICULAR PURPOSE.

8. Third-Party Information Providers' Limitation of Liability. MDX's third-party information providers shall have no liability for any damages, whether direct or indirect, whether lost profits, indirect, special, or consequential damages of Subscriber or any other Person seeking relief through Subscriber relating to the accuracy of or delays or omissions in any Exchange Data provided by MDX's third-party information providers, even if the third-party information providers have been advised of the possibility of such damages. In no event will the liability of the third-party information providers or their affiliates to Subscriber or any other Person seeking relief through Subscriber pursuant to any cause of action, whether in contract, tort, or otherwise, exceed the fee paid by Subscriber or any other Person seeking relief through Subscriber, as applicable.

9. Claims and Losses. Subscriber agrees to indemnify and hold harmless MDX, its owners, subsidiaries, affiliates, officers, directors, employees, agents, and any related Persons from any and all Claims or Losses imposed on, incurred by, or asserted as a result of or relating to: (a) any noncompliance by Subscriber with the terms and conditions hereof; and (b) any third-party actions related to Subscriber's receipt and use of Exchange Data, whether authorized or unauthorized under this Agreement. Each party agrees to indemnify and hold harmless (and in every case, MDX shall be permitted to solely defend and settle) another party (including MDX) and their owners, subsidiaries, affiliates, officers, directors, employees, agents, and any related Persons, against any Claims or Losses arising from, involving, or relating to a claim of infringement or other violation of an intellectual property right by the indemnifying party provided that: (a) the indemnified party promptly notifies the indemnifying party in writing of the Claims or Losses; and (b) the indemnified party reasonably cooperates in the defense of the Claims or Losses.

10. Termination. Subscriber acknowledges that MDX, when required to do so in fulfillment of statutory obligations or otherwise, may by notice to Vendor unilaterally limit or terminate the right of any or all Persons to receive or use Exchange Data, or any part thereof, and that Vendor shall immediately comply with any such notice and terminate or limit the furnishing of Exchange Data and confirm such compliance by written notice to MDX. Any affected Person will have available to it such procedural protections as are provided by the Securities Exchange Act of 1934 (the "Act") and applicable rules and regulations thereunder. In addition to the termination rights permitted under any agreement Subscriber may have with Vendor, this Agreement may be terminated by Subscriber upon 30 days' written notice to Vendor and by MDX upon 30 days' written notice either to Vendor or Subscriber. In the event of Subscriber's breach, the discovery of the untruth of any representation or warranty of Subscriber, or where directed by the SEC in its regulatory authority, MDX may terminate this Agreement upon not less than 3 days' written notice to Subscriber provided either by MDX or Vendor.

11. Notices. All communications required to be given in writing to MDX under this Agreement shall be directed to:

Market Data Express, LLC
400 South LaSalle Street
Chicago, IL 60605

Attn: Legal Department

Direct communication to Subscriber at the last address known to Vendor shall be considered given (a) upon actual receipt if delivered by email, or (b) upon posting the notice or other communication on www.bats.com or a successor site. Subscriber promptly shall give written notice to Vendor of any change in the name or place of residence or business at which Exchange Data is received.

12. Assignment. This Agreement shall inure to the benefit of and shall be binding upon the parties hereto and their respective permitted successors and assigns. Neither Vendor nor Subscriber shall assign this Agreement (including by operation of law) without the prior written consent of MDX, provided, however, that MDX shall not unreasonably withhold such consent. Notwithstanding the foregoing, Vendor or Subscriber may assign this Agreement to an affiliate or subsidiary without the prior written consent of MDX, provided that the assigning party is not currently in breach of this Agreement or delinquent in any fees owed to MDX. MDX may, as permitted by the Act, assign or transfer this Agreement or any of its rights or obligations hereunder to a related or unrelated party upon notice to Vendor and Subscriber.

13. 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.

14. Entire Agreement; Amendment; Waiver. This Agreement constitutes the complete and entire agreement of the parties to this Agreement with respect to its subject matter and supersedes all prior writings or understandings. If there is any conflict and/or inconsistency between this Agreement and Vendor's agreement with Subscriber, the

terms of this Agreement shall prevail as between MDX and Subscriber. MDX may modify any term of this Agreement upon 60 days' written notice either to Vendor or Subscriber, and any use of Exchange Data after such date shall be deemed acceptance of the new term or condition. No failure on the part of MDX or Subscriber to exercise, no delay in exercising, and no course of dealing with respect to any right, power, or privilege under the Agreement shall operate as a waiver thereof, nor shall any single or partial exercise of any such right, power, or privilege preclude any other or further exercise thereof or the exercise of any other right, power, or privilege under this Agreement.

15. Governing Law; Venue. This Agreement will be governed by and interpreted in accordance with the internal laws of the State of New York, USA. Subscriber hereby submits 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.

16. Headings. Section headings are included for convenience only and are not to be used to construe or interpret this Agreement. All references contained herein to sections or subsections shall refer to the sections or subsections of this Agreement, unless specific reference is made to the sections or subsections of another document.

17. Third-Party Beneficiary. Vendor and Subscriber hereby designate MDX as a third-party beneficiary of this Agreement, having the right to enforce any provision herein.

18. Cumulative Remedies. Except as otherwise limited herein, all rights and remedies provided in this Agreement are cumulative and not exclusive, and the exercise by either party of any right or remedy does not preclude the exercise of any other rights or remedies that may now or subsequently be available at law, equity, by statute, in any other agreement between the parties (including without limitation the Additional Agreements) or otherwise.

19. Counterparts. This Agreement may be executed in one or more counterparts, which shall each be considered an original but all of which shall constitute one and the same Agreement.

[Remainder of page intentionally left blank. Signature page follows.]

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

To execute this Agreement, you must be 18 years of age and you must designate yourself as either a Non-Professional Subscriber or Professional Subscriber (see Section 2 above).

Subscriber Type: ☐ Individual – Complete Section A.

☐ Firm or Organization – Complete Section B.

A. Individual Subscriber Information

Subscriber Name:_____

Signature:_____ Date:_____

Subscriber Status: ☐ **Professional** ☐ **Non-Professional***

**To qualify as a Non-Professional Subscriber, you must meet all of the terms set forth in Section 2 of the Agreement.*

B. Organizational Subscriber Information

Subscriber Organization Name:_____

Representative Name:_____ Title:_____

Signature:_____ Date:_____

**The Representative must be authorized in writing by the organization or firm to execute the Agreement. MDX may request documentation evidencing this authority.*

Vendor Information (for Vendor or Data Provider Use Only)

Vendor Name:_____

Representative Name:_____ Title:_____

Signature:_____ Date:_____

**The Representative must be authorized in writing by Vendor to execute the Agreement. MDX may request documentation evidencing this authority.*

Bats Global Markets
Service Facilitator List

This Service Facilitator List is for the Bats Global Markets Data Agreement.

DATA RECIPIENT INFORMATION	
Company Name:	Date:

SERVICE FACILITATOR INFORMATION		
Company Name:		Date:
Address of Receipt of Exchange Data:		
City:	State:	Zip:
BUSINESS CONTACT		
Name:	Email:	
Title:	Phone:	
Description of service provided:		
DATA DISTRIBUTION: ☐ Controlled ☐ Uncontrolled		
Will the Service Facilitator be responsible for reporting data feed usage on behalf of the Data Recipient? ☐ Yes ☐ No		

SERVICE FACILITATOR INFORMATION		
Company Name:		Date:
Address of Receipt of Exchange Data:		
City:	State:	Zip:
BUSINESS CONTACT		
Name:	Email:	
Title:	Phone:	
Description of service provided:		
DATA DISTRIBUTION: ☐ Controlled ☐ Uncontrolled		
Will the Service Facilitator be responsible for reporting data feed usage on behalf of the Data Recipient? ☐ Yes ☐ No		

**Attach Additional pages(s) as necessary*

I certify that the information provided on this Service Facilitator List is complete and accurate.

Data Recipient Name

Signature of Data Recipient Authorized Representative

Title

Printed Name

Date

Bats Global Markets
External Controlled Data Distributor Trial Addendum

This Bats Global Markets External Controlled Data Distributor Trial Addendum (this "Addendum") amends and supplements the Bats Global Markets Data Agreement (including any amendments thereto, the "Data Agreement") entered into between Market Data Express, LLC, a Delaware limited liability company ("MDX"), and the External Controlled Data Distributor referenced below ("ECDD"). Capitalized terms used and not defined in this Addendum shall have the respective meanings set forth in the Data Agreement.

A. ECDD qualifies as an External Controlled Data Distributor, as specified in the Bats Global Markets U.S. Market Data Policies (as may be amended by MDX in its discretion from time to time, the "Policies").

B. ECDD desires to offer Exchange Data to Data Users on a trial basis.

C. MDX is willing to permit such distribution of Exchange Data to Data Users on a trial basis, subject to the terms and conditions of this Addendum.

NOW THEREFORE, for good and valuable consideration, the receipt and sufficiency of which are hereby acknowledged, MDX and ECDD agree as follows:

1. Trial. ECDD may provide Exchange Data to Data Users on a trial basis, solely in accordance with the Trial Usage terms and conditions set forth in the Policies.

2. Disclaimer and Limitation. ECDD ACKNOWLEDGES AND AGREES THAT (A) ANY AND ALL EXCHANGE DATA PROVIDED UNDER THIS ADDENDUM IS PROVIDED ON AN "AS IS," "AS AVAILABLE" BASIS, WITHOUT WARRANTIES OF ANY KIND, EXPRESS OR IMPLIED, (B) AS BETWEEN MDX AND ECDD, ECDD SHALL BE SOLELY RESPONSIBLE FOR ALL DISTRIBUTION AND USE OF ANY EXCHANGE DATA PURSUANT TO THIS ADDENDUM, AND (C) UNDER NO CIRCUMSTANCES SHALL MDX, ANY EXCHANGE OR ANY OTHER AFFILIATES OF MDX HAVE ANY LIABILITY FOR ANY EXPENSES, COSTS, DAMAGES, LOSSES AND LIABILITIES OF ANY NATURE WHATSOEVER, INCLUDING WITHOUT LIMITATION DIRECT, INDIRECT, CONSEQUENTIAL, SPECIAL, PUNITIVE OR INDIVIDUAL DAMAGES, LOST PROFITS, OR TRADING LOSSES, REGARDLESS OF THE FORM OF ACTION, AND WHETHER OR NOT FORESEEABLE, ARISING OUT OF THIS ADDENDUM OR ANY USE OF, INABILITY TO USE, OR RELIANCE UPON ANY EXCHANGE DATA PROVIDED HEREUNDER.

3. Indemnification. ECDD shall indemnify and hold harmless MDX Indemnified Parties from and against any and all Claims and Losses imposed on or asserted against MDX Indemnified Parties by a third party resulting from, in connection with, or arising out of (a) any distribution by ECDD of Exchange Data under this Addendum, and/or (b) any use of, inability to use, or reliance upon any Exchange Data by any Data User to which ECDD provides Exchange Data on a trial basis, whether or not authorized by ECDD.

4. Miscellaneous. This Addendum amends and supplements the Data Agreement and all terms thereof are hereby incorporated by reference herein. In the event of any conflict between the terms of this Addendum and the terms of the Data Agreement, the terms of this Addendum shall control.

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

External Controlled Data Distributor	**Market Data Express, LLC, on behalf of itself and its affiliates**
Firm: _____	Signature: _____
Signature: _____	Printed Name: _____
Printed Name: _____	Title: _____
Title: _____	Date: _____

Bats Global Markets
U.S. Market Data Policies

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Bats Global Markets

U.S. Market Data Policies

Under the terms of the Bats Global Markets Data Agreement ("**Data Agreement**"), firms receiving Exchange Data must adhere to these Bats U.S. Market Data Policies (the "**Policies**"). These Policies cover the receipt, use, pricing, reporting, and distribution of Exchange Data. Unless otherwise specified, and except in the case of foreign currency trading data, references herein to "Exchange Data" refer to U.S. Exchange Data. For policies specific to the receipt, use, pricing, reporting, and distribution of European Exchange Data, including terminology and pricing unique to European Exchange Data, please refer to the Bats Europe Market Data Policy available on the Bats Europe website.

Market Data Express, LLC ("**MDX**") reserves the right to update these Policies from time to time and will communicate any updates to Data Recipients via email and the Website. All capitalized terms used herein that are not defined below are defined in the Data Agreement.

1 Definitions

Controlled Data Distributor – A Data Recipient that (i) provides Exchange Data to a Data User (either an Internal Subscriber or an External Subscriber) and (ii) controls the entitlements of and display of information to such Data User. If the Data User is either an employee of the Controlled Data Distributor or an employee of an Affiliate of the Controlled Data Distributor identified on the Bats Global Markets List of Affiliates (*i.e.*, an Internal Subscriber), such Controlled Data Distributor is considered to be an "**Internal Controlled Data Distributor**." If the Data User is not an employee of the Controlled Data Distributor or of an Affiliate thereof identified on the Bats Global Markets List of Affiliates (*i.e.*, an External Subscriber), such Controlled Data Distributor is considered to be an "**External Controlled Data Distributor**."

Data Feed Subscriber – Any Data User outside of Data Recipient that (a) receives Exchange Data from Data Recipient and (b) for which Data Recipient cannot substantially control Exchange Data for the purposes of reporting usage or qualification.

Data Recipient – A third party that receives a data feed directly from MDX or through a third party that is an Uncontrolled Data Distributor and includes (a) any Person that receives and uses Exchange Data for internal purposes only, and (b) any Person that receives and distributes Exchange Data, in each case pursuant to and in accordance with the terms and conditions of this Agreement and Exchange Requirements.

Data User – Any Person that receives Exchange Data from Data Recipient.

Display Usage – The access to and/or use of Exchange Data by a Data User via a graphical user interface, application or other medium which displays Exchange Data.

Non-Display Usage – Any accessing, use, processing and/or consuming of Exchange Data that is not Display Usage, including but not limited to accessing, use, processing and/or consuming of Exchange Data by a machine or automated device for a purpose other than to display Exchange Data.

Non-Professional Data User – If working in the United States, a natural person who is not: (i) registered or qualified in any capacity with the Securities Exchange Commission, the Commodity Futures Trading Commission, any state securities agency, any securities exchange or association; any commodities or futures contract market or association; (ii) engaged as an "investment adviser" as that term is defined in Section 201(11) of the Investment Advisers Act of 1940 (whether or not registered or qualified under that Act); or (iii) employed by a bank or other organization exempt from registration under federal or state securities laws to perform functions that will require registration or qualification if such functions were performed for an organization not so exempt." Additionally, any natural person who works outside of the United States will also be considered a "Non-Professional Data User" if he or she is similarly situated as someone who would be considered a "Non-Professional Data User" in the United States.

Professional Data User - Any Data User other than a Non-Professional User.

Uncontrolled Data Distributor – A Data Recipient that is authorized by MDX to distribute Exchange Data externally to a customer that is not an Affiliate of Data Recipient where the Data Recipient does not control the entitlements of and display of information to such customer (*i.e.*, a "Data Feed Subscriber").

2 Display Requirements

Attribution

Each Data Recipient must identify MDX as the source of any Exchange Data through use of the name of the applicable Exchange – "**Bats BZX Exchange**", "**Bats BYX Exchange**", "**Bats EDGA Exchange**", "**Bats EDGX Exchange**", or "**Hotspot**" – on applicable depth of book displays of Exchange Data. Distributors of Bats Global Markets quote or last sale information to Data Users must provide a prominent attribution message on all displays, including wall boards, tickers, mobile devices, and audio announcements on voice response services. In the case of a ticker, the attribution message should be interspersed with the Exchange Data at least every 90 seconds.

Quote/Last Sale Information Source	Required Attribution Message
BZX Depth, BZX Top, BZX Last Sale, or BZX Summary Depth	Bats BZX Real-Time Quote, Bats BZX Real-Time Last Sale or Bats BZX Real-Time Price
BYX Depth, BYX Top, BYX Last Sale, or BYX Summary Depth	Bats BYX Real-Time Quote, Bats BYX Real-Time Last Sale or Bats BYX Real-Time Price
EDGX Depth, EDGX Top, EDGX Last Sale, or EDGX Summary Depth	Bats EDGX Real-Time Quote, Bats EDGX Real-Time Last Sale or Bats EDGX Real-Time Price
EDGA Depth, EDGA Top, EDGA Last Sale, or EDGA Summary Depth	Bats EDGA Real-Time Quote, Bats EDGA Real-Time Last Sale or Bats EDGA Real-Time Price
Bats One	Bats One Real-Time Quote, Bats One Real-Time Last Sale or Bats One Real-Time Price[1]
Hotspot US Depth	Hotspot US Quote, Hotspot US Rate
Hotspot London Depth	Hotspot London Quote, Hotspot London Rate

If the Exchange Data is being provided on a delayed basis, the Data Recipient must appropriately attribute Exchange Data as delayed (*e.g.*, "**Data Delayed 15 Minutes**"). Alternatives for Exchange Data attribution on displays may be permitted with the prior written approval of MDX if the alternative accurately and unambiguously describes the source of the Exchange Data. Requests for alternative attribution may be made via email to *marketdata@bats.com*.

Marketing Materials

Each Data Recipient may use MDX's corporate name, the names of MDX's market data products, and the trademarks of Bats set forth in the Bats Brand Standards Manual available through contacting Bats Global Markets Market Data Services at *marketdata@bats.com* in any marketing, publicity or advertising materials related to the business of the Data Recipient, *provided that* such use is solely for purposes of exercising Data Recipient's rights under the Data Agreement and is in compliance with the guidelines set forth in the Bats Global Markets Brand Standards Manual.

3 Record Retention Requirements

Each Data Recipient must create and maintain complete and accurate books and records relating to the Data Recipient's performance of its obligations and exercise of its rights under the Data Agreement, including without limitation the receipt, use, display and distribution of Exchange Data and the administration of the Bats Global Markets Subscriber Agreement or equivalent, if applicable.

4 Data Recipient Approval Requirements

Each firm that is requesting Exchange Data must complete and submit to MDX the following: (i) Data Agreement, (ii) List of Affiliates (if applicable); (iii) Exchange Data Order Form and System Description; and (iv) Service Facilitator List (if applicable). The Exchange Data Order Form and System Description requires firms to provide key contact information, identify the desired feed(s) and a description of the system that makes use of Exchange Data internally or if you are distributing externally, a description of the service(s) and Exchange Data you plan to provide to Data Users.

Each completed Data Agreement, List of Affiliates (if applicable), Exchange Data Order Form and System Description, and Service Facilitator List (if applicable) should be emailed to *marketdata@bats.com* for approval.

[1] Firms that distribute CTA consolidated volume must comply with the CTA Consolidated Volume Policy as provided on the CTA Plan website.

5 Distribution to Affiliates of Data Recipient

Any Data Recipient that distributes Exchange Data to one or more of its Affiliates must complete and submit the Bats Global Markets List of Affiliates showing the Affiliate(s) receiving Exchange Data. An "**Affiliate**" is defined as any entity that, from time to time, directly or indirectly Controls, is Controlled by, or is under common Control with Data Recipient. "**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. By submitting the names of its Affiliate(s), the Data Recipient agrees that the contact information provided shall be deemed to be the contact information for each Affiliate.

One or more of the entities (each a "Connected Entity") that is part of the group comprised of the Data Recipient and the Affiliates listed on the List of Affiliates (collectively, the "Affiliate Group") is permitted to own connectivity with MDX to receive Exchange Data directly from MDX. Each Connected Entity shall be identified in writing to MDX. Any member of the Affiliate Group that also receives Exchange Data indirectly from another Data Recipient (in addition to a Connected Entity) that is an Uncontrolled Data Distributor is not required to complete and return to MDX a separate Data Agreement and Exchange Data Order Form and System Description. Rather that entity is bound by the same Data Agreement and other relevant documents executed by the applicable member of the Affiliate Group.

6 Uncontrolled Data Distributor Requirements

To become an Uncontrolled Data Distributor, the Data Recipient must describe, using the Exchange Data Order Form and System Description, its plan to distribute Exchange Data externally to any customer that is not an Affiliate of the Data Recipient.

Request Process

Uncontrolled Data Distributors are responsible for either (i) directing each prospective Data Recipient to download the required documents from the Website, or (ii) providing a hard copy of each required document to the prospective Data Recipient. Required documents include the following:

- Signed Data Agreement
- Completed and signed Exchange Data Order Form and System Description
- Completed and signed Bats Global Markets List of Affiliates (if applicable)
- Completed and signed Bats Global Markets Service Facilitator List (if applicable)

Approval Process

After the required documents have been completed, the prospective Data Recipient must submit the required documents to MDX (as described above) for approval. MDX will review the documents and may contact the Data Recipient directly for additional information. The review of the documents includes, but is not limited to, a review of the intended use of the Exchange Data and the entitlements.

Upon approval, MDX will notify both the Data Recipient and the Uncontrolled Data Distributor via fax or email. Once approved by MDX, the Uncontrolled Data Distributor is authorized to provide the approved Exchange Data to the Data Recipient. **A new Data Recipient may not receive Exchange Data until and unless MDX has specifically approved the distribution of the requested Exchange Data product.** Please note that if an Uncontrolled Data Distributor provides Exchange Data to an unapproved Data Recipient or releases any Exchange Data prior to MDX's approval, the Uncontrolled Data Distributor is responsible for paying MDX any fees and other charges that would have been assessed such Data Recipient during the unauthorized time frame had the Data Recipient and release of Exchange Data to such Data Recipient been approved.

7 Uncontrolled Data Distributor Reporting

MDX requires all Uncontrolled Data Distributors of Exchange Data to submit reports, on a monthly basis, providing firm and Exchange Data details (as described below) for each Data Feed Subscriber receiving the Exchange Data. Each such report must include the following:

- Each Data Recipient's name, contact information, and billing address
- Address at which each Data Recipient receives the Exchange Data

- Exchange (BZX, BYX, EDGA, EDGX, Hotspot US, Hotspot London or product name if the Exchange Data is an aggregate of multiple Bats Global Markets exchanges)) and type of Exchange Data subscribed to by each Data Recipient
- The earliest date upon which each Data Recipient received or will receive such Exchange Data from the Uncontrolled Data Distributor (installation date)
- The last date upon which each Data Recipient received or will receive such Exchange Data from the Uncontrolled Data Distributor (termination date)

Uncontrolled Data Distributors may report to MDX by entering details directly or via upload files in CSV format. Monthly reporting for the prior month's activity is due on the 15th of the current month (*i.e.*, August 15th is the due date for July reporting).

Please contact *marketdata@bats.com* if you have any questions about reporting requirements. If you are newly reporting to MDX, a user login will be created for you to access the system.

8 Controlled Data Distributor Requirements and Reporting

Internal Controlled Data Distributors

Internal Controlled Data Distributors have the right to provide Exchange Data to employees of the Internal Controlled Data Distributor or any Affiliate thereof (*i.e.*, Internal Subscribers) identified on a Bats Global Markets List of Affiliates submitted by the Internal Controlled Data Distributor to MDX.

Internal Controlled Data Distributors are not required to administer a Bats Global Markets Subscriber Agreement or equivalent with Internal Subscribers. Only a Data Agreement, List of Affiliates (if applicable) and Exchange Data Order Form and System Description completed by the Internal Controlled Data Distributor is required to be submitted to MDX.

External Controlled Data Distributors

External Controlled Data Distributors must administer a Bats Global Markets Subscriber Agreement **or equivalent** to each Data User, or External Subscriber, whether an individual or a firm (except for Trial Users as defined below). MDX will not administer this agreement or equivalent to an External Controlled Data Distributor's customers.

The Data Agreement specifies that External Controlled Data Distributors must administer Subscriber Agreements to all External Subscribers. If an External Controlled Data Distributor opts not to administer a Subscriber Agreement, then the External Controlled Data Distributor is required to indemnify MDX in the event of a claim by an External Subscriber or otherwise.

External Controlled Data Distributors have four options to administer the Bats Global Markets Subscriber Agreement **or equivalent**.

Administration Options for the Bats Global Markets Subscriber Agreement	
1. Data Recipient Indemnification	Data Recipient administers its own agreement to External Subscribers as an equivalent to the Bats Global Markets Subscriber Agreement. Submission of a sample copy of the Data Recipient's agreement, and any amendments thereto, is required.
2. Incorporation by Reference	Data Recipient adds specific language into the Data Recipient's own agreement with the External Subscriber. Submission of a sample copy of the Data Recipient's agreement, and any amendments thereto, is required.
3. Online Click-Through Subscriber Agreement	Data Recipient offers the agreement via the Internet. Submission of a sample copy of the Data Recipient's agreement, and any amendments thereto, is required.

4. Hard Copy Subscriber Agreement	Data Recipient provides External Subscriber with a paper copy of the Bats Global Markets Subscriber Agreement. Data Recipient retains executed originals, but does **not** submit the agreement to MDX.

Option 1 – Data Recipient Indemnification

Section 11 of the Data Agreement permits External Controlled Data Distributors to choose to indemnify MDX in lieu of administering the Bats Global Markets Subscriber Agreement to each External Subscriber.

External Controlled Data Distributors that opt for indemnification are required to include certain basic protections and rights in their own legally enforceable customer agreements that ensure MDX is protected to the same extent as if the External Controlled Data Distributors had administered the Bats Global Markets Subscriber Agreement to each External Subscriber. An External Controlled Data Distributor may then provide the Exchange Data immediately after administering its own account agreement to the External Subscriber.

External Controlled Data Distributors that opt for indemnification must follow these guidelines:

1. Prior to distributing the Exchange Data, the External Controlled Data Distributor will have in place a legally valid and enforceable contract (a "Data Recipient Account Agreement") with the External Subscriber that (i) governs the accounts held by the External Subscriber with the External Controlled Data Distributor through which the External Subscriber is entitled to access the Exchange Data, including any limitations on the External Subscriber's right to redistribute the Exchange Data, and (ii) protects MDX and the MDX Indemnified Parties (as defined in the Data Agreement) to the same extent as if the External Controlled Data Distributor had presented and the External Subscriber had signed the Bats Global Markets Subscriber Agreement.
2. In terms of recordkeeping and retention, Data Recipient Account Agreements are subject to applicable Exchange requirements. In the event of a dispute with External Subscriber(s) relating to the Exchange Data, the External Controlled Data Distributor agrees to provide MDX with copies of the relevant Data Recipient Account Agreements.
3. External Controlled Data Distributor must indemnify MDX, all MDX Indemnified Parties and any third parties against any assertion of claims or losses relating to the Exchange Data made by an External Subscriber who receives the Exchange Data from the External Controlled Data Distributor (or any person relying upon the Exchange Data received by such External Subscriber) arising from External Controlled Data Distributor's election to distribute Exchange Data to such External Subscriber under a Data Recipient Account Agreement rather than under a Bats Global Markets Subscriber Agreement.

Option 2 – Incorporation by Reference

In lieu of administering the exact language of the Bats Global Markets Subscriber Agreement to each Subscriber, External Controlled Data Distributors may choose to add specific language protecting MDX to their own legally valid and enforceable customer contract (each a "Data Recipient Account Agreement") in addition to offering a copy of the Bats Global Markets Subscriber Agreement. Thus, by signing the Data Recipient Account Agreement, External Subscribers also assent to the standard Bats Global Markets Subscriber Agreement terms.

External Controlled Data Distributors that opt for "Incorporation by Reference" must follow these instructions:

1. Include the language below prominently on the signature page of the Data Recipient Account Agreement. Prior to including this language in the Data Recipient Account Agreement, in the blank provided, insert the term in the Data Recipient Account Agreement that references the person receiving the information (*i.e.*, customer, account holder, subscriber, member, etc.).

   By executing this Agreement, _____, (known as "Subscriber" in the Bats Global Markets Subscriber Agreement) agrees that:

   a. **it has read and agrees to be bound by the Bats Global Markets Subscriber Agreement, a copy of which is attached hereto;**

b. **the Data Recipient/Vendor (i) is not an agent of Market Data Express, LLC; (ii) is not authorized to add to or delete any terms of provisions from the Bats Global Markets Subscriber Agreement; and (iii) is not authorized to modify any provision of the Bats Global Markets Subscriber Agreement; and**

c. **no provision has been added to or deleted from the Bats Global Markets Subscriber Agreement and that no modifications have been made to it. Both the Subscriber and the person executing on behalf of the Subscriber warrant that the Subscriber is legally able to undertake the obligations set forth in and the signatory is duly authorized to bind the Subscriber to the Bats Global Markets Subscriber Agreement.**

2. Provide each External Subscriber with a copy of the Bats Global Markets Subscriber Agreement.

Once the Data Recipient Account Agreement is signed by both the External Subscriber and the External Controlled Data Distributor, and the External Subscriber has been provided a copy of the Bats Global Markets Subscriber Agreement, MDX considers the External Subscriber to be authorized to receive Exchange Data. Please note that MDX does **not** require External Controlled Data Distributors to submit copies of the executed Data Recipient Account Agreements to MDX.

Option 3 – Online Click-Through Version

External Controlled Data Distributors are permitted to offer an online click-through version of the Bats Global Markets Subscriber Agreement to each External Subscriber, but if a Bats Global Markets Subscriber Agreement is not administered properly, the External Controlled Data Distributor must indemnify MDX in the event of a claim.

To offer an online click-through version of the Bats Global Markets Subscriber Agreement to External Subscribers, copy the full text of the Bats Global Markets Subscriber Agreement and complete the necessary programming to ensure the External Subscriber can enter the following information:

- Firm Name
- Full Name of Person Authorized to Sign the Agreement
- Title of Person Authorized to Sign the Agreement
- Date of Authorization

The following language must be provided to the External Subscriber where the External Subscriber must agree to it by marking the applicable checkbox:

> "ACCEPTED AND AGREED: I, an authorized officer of the Subscriber to which the preceding terms and conditions refer, acknowledge that I have read the preceding terms and conditions of this Agreement, that I understand them, and that I hereby manifest my assent to, and my agreement to comply with, those terms and conditions by "clicking" on the following box."

Submission of a sample copy of the Data Recipient's agreement, and any amendments thereto, is required.

Once these steps have been completed, MDX considers the External Subscriber to be authorized to receive Exchange Data.

Option 4 – Hard Copy Agreement

External Controlled Data Distributors are permitted to offer a hard copy/paper version of the Bats Global Markets Subscriber Agreement to each External Subscriber. MDX permits External Controlled Data Distributors to accept faxed and scanned copies of the agreement as legal documents.

External Controlled Data Distributors that opt for the hard copy version of the Bats Global Markets Subscriber Agreement should follow these instructions:

1. Copy the text of the Bats Global Markets Subscriber Agreement onto company letterhead.

2. Print the Bats Global Markets Subscriber Agreement on your organization's letterhead for your records.

Once the Bats Global Markets Subscriber Agreement is signed by both the External Subscriber and the External Controlled Data Distributor, and the External Subscriber has been provided an executed copy of the Bats Global Markets Subscriber Agreement, MDX considers the External Subscriber to be authorized to receive Exchange Data.

Display Usage Reporting

Controlled Data Distributors are required to report the number of devices used for Display Usage to MDX depending on the requirements for the specified data product as follows:

Product	**Internal Display Usage Reporting Requirement**	**External Display Usage Reporting Requirement**
Bats Depth[2]	Monthly Reporting Required	Monthly Reporting Required
Bats Top	No Reporting Required	Monthly Reporting Required
Bats Last Sale	No Reporting Required	Monthly Reporting Required
Bats Summary Depth	No Reporting Required	Monthly Reporting Required
Bats One Feed	No Reporting Required	Monthly Reporting Required
Bats Options Depth	Monthly Reporting Required	Monthly Reporting Required
Hotspot US Depth	No Reporting Required	Monthly Reporting Required
Hotspot London Depth	No Reporting Required	Monthly Reporting Required

If a product shown above requires no reporting, Controlled Data Distributors do not have to report the Data Users receiving the controlled data or Data User display quantities. For products that require Display Usage Reporting, Controlled Data Distributors must count every Professional Data User and Non-Professional Data User to which they provide Exchange Data. Thus, the Controlled Data Distributor's count will include every Data User that accesses the Exchange Data, regardless of the purpose for which the Data User uses the Exchange Data. Controlled Data Distributors must report all Professional Data Users and Non-Professional Data Users in accordance with the following:

- In connection with a Controlled Data Distributor's distribution of Exchange Data, the Controlled Data Distributor should count as one Data User each unique Data User that the Controlled Data Distributor has entitled to have access to the Exchange Data. However, where a device is dedicated specifically to a single individual, the Controlled Data Distributor should count only the individual and need not count the device.

- The Controlled Data Distributor should identify and report each unique Data User. If a Data User uses the same unique method to gain access to the Exchange Data, the Controlled Data Distributor should count that as one Data User. However, if a unique Data User uses multiple methods to gain access to the Exchange Data (e.g., a single Data User has multiple passwords and user identifications), the Controlled Data Distributor should report all of those methods as one Data User.

- Controlled Data Distributors should report each unique individual person who receives access through multiple devices as one Data User so long as each device is dedicated specifically to that individual.

- If a Controlled Data Distributor entitles one or more individuals to use the same device, the Controlled Data Distributor should include only the individuals, and not the device, in the count.

[2] Display Usage reporting for equity depth Exchange Data will be required by November 15, 2016 for October service.

Controlled Data Distributors must submit usage reports of real-time Exchange Data on a monthly basis using the Bats Global Markets Data Recipient Declaration system by entering details directly or via upload files in CSV format. TCB Data is available as an alternative if requested. Monthly reporting for the prior month's activity is due on the 15th of the current month (*i.e.*, August
15th is the due date for July reporting). For Display Usage reporting, firms may submit revised reporting in order to correct errors in the reporting of total quantities or Data User categorization. Controlled Data Distributors may only submit revised reporting within 60 days of the date where usage activity occurred 30 calendar days after the reporting due date (i.e., June 14th for April reporting). Each report must include the following:

- Data User Firm name, contact information, and billing address
- Address at which Data User receives the Exchange Data
- Type of service
- The earliest date upon which a Data User receives the Exchange Data from the Controlled Data Distributor
- The last date upon which a Data User receives the Exchange Data from the Controlled Data Distributor (termination date)
- Number of Display Data Users

Controlled Data Distributors that distribute Exchange Data to Data Users that have obtained an Enterprise license are not required to report Data User quantities monthly, but are required to provide Data User quantities for each Data User every six months.

Non-Display Usage Reporting

Non-Display Usage may include but is not limited to:

- Algorithmic/automated trading
- Order routing
- Surveillance
- Order management
- Risk management

Firms operating a registered Automated Trading System (ATS), Electronic Communication Network (ECN) or National Securities Exchange trading platform will be required to (i) promptly provide MDX with written notice in the case that equity depth Exchange Data is or will be used within the trading platform (including any order routing system dedicated for use within the trading platform); and (ii) provide MDX with written notice when equity depth Exchange Data is discontinued for use within the trading platform or dedicated order router.

Usage Fees

For External Controlled Data Distributors, Display Usage fees by Data Users will be collected by the External Controlled Data Distributor and then remitted to MDX, including Enterprise or Digital Media fees, if applicable. For Controlled Data Distributors of equity depth Exchange Data, reporting will be required and Display Usage fees will apply for all Data Users except those Data Users using equity depth Exchange Data solely for the purpose of software development, quality assurance testing, sales support relating to redistribution, or for technical monitoring of systems using equity depth Exchange Data and not in support of other commercial/business functions[3]. Non-Display Usage fees will apply for Distributors that use equity depth Exchange Data within a registered ATS, ECN or Exchange. See Section 12 of these Policies for more details.

[3] Effective January 3, 2017 pending filing with the SEC.

Notice and Enforcement

Each External Controlled Data Distributor shall (i) enforce each of its External Subscriber's compliance with the terms of the Subscriber Agreement; (ii) provide MDX written notice of any violation thereof by an External Subscriber, immediately upon becoming aware of such violation; (iii) provide MDX notice of termination of any Bats Global Markets Subscriber Agreement, immediately upon receiving or serving notice of such termination; (iv) provide MDX any assistance as MDX may reasonably request in enforcing MDX's rights under any Bats Global Markets Subscriber Agreement; (v) upon MDX's request, cease providing any Exchange Data to any External Subscriber; and (vi) provide MDX written notice promptly upon becoming aware of any acts or omissions of any External Subscriber or other person, in addition to those otherwise required to be reported herein, which
External Controlled Data Distributor believes, in its reasonable discretion, might jeopardize or prejudice the rights of MDX in any Exchange Data or threaten the security or operations of any systems or other technology utilized by or on behalf of MDX or any Data Recipient to disseminate any Exchange Data.

Trial Usage

External Controlled Data Distributors are permitted to provide real-time Exchange Data to their Data Users through a trial or for demonstration purposes for a limited time. If an External Controlled Data Distributor desires to provide Exchange Data to any Data User on a trial basis, such External Controlled Data Distributor is not required to qualify Data Users through one of the methods identified above in the event the External Controlled Data Distributor (i) enters into the External Controlled Data Distributor Trial Addendum (the "**ECDD Trial Addendum**") and (ii) fully complies with each of the following requirements:

- No Data User shall be permitted to use Exchange Data pursuant to the ECDD Trial Addendum for a period of longer than thirty (30) days (the "**Trial Period**"). At the end of the Trial Period, the Data User that has participated in the trial must cease all use of the Exchange Data or be qualified (as of the effective date of termination of the Trial Period) through one of the methods identified above.
- Each Data User may participate in the trial only once for each Exchange Data product offered by MDX.
- The External Controlled Data Distributor must (i) continuously maintain a list of each Data User to which Exchange Data is provided under the ECDD Trial Addendum, together with the Data User's firm name and contact information, the specific Exchange Data product to which such Data User was or will be provided access, the date such Data User commenced or will commence receiving the Exchange Data, and the last date upon which the Data User received or will receive the Exchange Data pursuant to the ECDD Trial Addendum; and (ii) provide such documentation to MDX via *marketdata@bats.com*, promptly upon MDX's request.

9 Service Facilitator

A Data Recipient may delegate any of its responsibilities, obligations or duties under or in connection with the Data Agreement to an authorized third party agent ("**Service Facilitator**"), which may discharge those responsibilities, obligations or duties on behalf of the Data Recipient in accordance with the Data Agreement; *provided, however*, that the Data Recipient shall be and will remain responsible for compliance by such Service Facilitators with all applicable terms and conditions of the Data Agreement and all other acts and omissions thereby in connection with the receipt, use and distribution of the Exchange Data. Service Facilitators may support one or more functions for the Data Recipient including, but not limited to, website operation, software development, facilities and equipment operation, and service installation. The Data Recipient must, through a legally enforceable written agreement with each Service Facilitator:

- Ensure MDX is protected to the same extent as if the Service Facilitator were a party to the Data Agreement, including without limitation by permitting MDX to audit the Service Facilitator on the same terms as MDX is permitted to audit the Data Recipient under the Data Agreement.
- Ensure no terms of such agreement conflict with the terms of the Data Agreement.
- Ensure Exchange Data or controlled data distribution of Exchange Data to a Data Recipient may occur only after the Data Recipient is authorized by MDX, or Data Recipient is qualified through one of the Controlled Data Distributor qualification methods outlined above.
- Ensure the Data Recipient, and not the Service Facilitator, controls all entitlement of Exchange Data to the Data Recipient.

Notwithstanding the foregoing, the Service Facilitator must sign a Data Agreement and must fulfill all requirements of the Exchange if the Service Facilitator receives Exchange Data directly from MDX. Finally, if the Data Recipient uses any Service Facilitators, the Data Recipient must provide a list of all Service Facilitators to MDX on the Service Facilitator List.

10 Delayed Data

Once a period of time has passed since the dissemination of Exchange Data by MDX, Real-time Exchange Data will become Delayed Exchange Data. There are different requirements for the distribution of Delayed Exchange Data as compared to Real-time Exchange Data. The following definitions apply:

- **Delay Period** – The period of time that has passed since the dissemination of Exchange Data by MDX, which is currently 15 minutes.
- **Real-time Exchange Data** – Exchange Data distributed prior to the Delay Period.
- **Delayed Exchange Data** – Exchange Data distributed after the Delay Period,

Controlled Data Distributors of Delayed Exchange Data are not required to qualify Data Users in respect of receipt of Delayed Exchange Data identified in the Controlled Data Requirements section of these Policies. Thus, Controlled Data Distributors of Delayed Data are not required to administer a Bats Global Markets Subscriber Agreement or equivalent with such Data Users. In addition, Uncontrolled Data Distributors of Delayed Exchange Data are not required to obtain a Data Agreement from Data Users receiving Delayed Exchange Data or report Data Users receiving Delayed Data. Each Delayed Data Distributor must obtain approval and describe, using the Exchange Data Order Form and System Description, its plan to distribute Delayed Data externally to any Data User that is not an Affiliate of the Data Recipient. Data Recipients of Delayed Exchange Data are not permitted to distribute the Delayed Exchange Data as an Uncontrolled Data Distributor. The waiver of the qualification and agreement requirement by MDX does not limit the Controlled Data Distributor's or Uncontrolled Data Distributor's obligations as described within the Data Agreement executed with MDX.

For Distributors providing Delayed Data, MDX requires that an appropriate delay message be provided to Subscribers for all displays of Exchange Data. The delay message must prominently appear on all displays containing Delayed Data, such as at or near the top of the page. In the case of a ticker, the delay message should be interspersed with the market data at least every 90 seconds. Examples of appropriate delay messages are as follows: "Data Delayed 15 minutes", "Data Delayed 24 hours", "Delayed Data", "Del-15", and "Data Delayed until Midnight CET".

11 Derived Data

"**Derived Data**" is pricing data or other data that (i) is created in whole or in part from Exchange Data and (ii) cannot be readily reverse-engineered to recreate Exchange Data or used to create other data that is a reasonable facsimile or substitute for Exchange Data. In addition, Derived Data that contains price data and is based upon a single security symbol or currency pair is generally fee liable at the underlying product rates. Data Recipients distributing Derived Data must use the Exchange Data Order Form and System Description to describe any Derived Data created using Exchange Data. Distributors of Derived Data are not required to report Data Users receiving Derived Data. Distribution of Derived Data does not require the Data User receiving Derived Data to sign a Data Agreement with MDX, but note, if a distributor opts not to administer a Bats Global Markets Subscriber Agreement, then the distributor is required to indemnify Bats in the event of a claim.

12 Fees

Fees for U.S. Exchange Data are displayed on the Website at:

http://www.bats.com/us/equities/membership/pricing/
http://www.batsoptions.com/support/fee_schedule/

If a Data Recipient is receiving identical Exchange Data from (i) multiple Uncontrolled Data Distributors or (ii) from one or more Uncontrolled Data Distributors and MDX, the Data Recipient will only be required to pay the distribution fee once to MDX – either the Internal Distribution Fee or the External Distribution Fee – depending on whether the Data Recipient is distributing the Exchange Data internally or externally. Notwithstanding the foregoing, if a Data Recipient is distributing the Bats One Feed internally and externally, the Data Recipient will be required to pay both the Internal Distribution Fee and the External Distribution Fee.

Historical Data

Data Recipients can subscribe to Bats Historical Exchange Data on a T+1 basis. Up to three months of data is available via download from the Website. Additional data can be uploaded to a 1TB hard drive for a single fee per drive per Exchange. A web login account is required to subscribe to Historical Data on the Website. For

assistance, please visit http://www.bats.com/us/equities/market_data_products/ or contact Bats Global Markets Market Data Services at 212.378.8821 or *marketdata@bats.com*.

Other Data Feeds

To request a subscription to the Bats Auction or Bats Options Auction Feed, please contact Bats Global Markets Market Data Services at 212.378.8821 or marketdata@bats.com.

13 Audit

MDX has the right to conduct comprehensive audits of Data Recipients on a regular basis. The purpose of the audits is to ensure that Data Recipients that distribute Exchange Data are complying with the terms of their agreements with MDX. MDX will review Data Recipients to verify that they are in compliance with MDX's data requirements. Audits will cover a Data Recipient's market data infrastructure for three (3) years preceding the date of the audit. The Data Recipient's liability shall be limited to unpaid fees, together with interest, for underreporting, underpayment or other financial noncompliance that has occurred during the audit period, plus any costs and expenses as set forth in Section 10 of the Data Agreement, provided such underreporting, underpaying or other financial non-compliance is a result of a good faith error by Data Recipient.

Please refer to Section 10 of the Data Agreement for more details regarding MDX's audit right.

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	Type of User	Address	Phone Number	Primary Activities
ABN AMRO Clearing Chicago, LLC	10/15/2008	10/1/2010	5/25/2010	5/27/2010	Member	175 W Jackson Boulevard Suite 400 Chicago, IL 60604	312- 604-8643	Market Maker
ACS Execution Services, LLC	1/15/2016	1/15/2016	1/15/2016	1/15/2016	Member	12 Broad Street Redbank, NJ 07701	732-204-8999	Proprietary
Agency Desk, LLC	7/1/2009	NA	NA	NA	Member	515 Madison Avenue 22nd Floor New York, NY 10022	212-935-9835	Market Maker
Akuna Securities, LLC	9/15/2015	NA	NA	NA	Member	36 S. Wabash, Suite 130 Chicago, IL 60603	312-994-4640	Market Maker
Albert Fried & Company, LLC	8/18/2008	4/15/2011	5/18/2010	5/18/2010	Member	45 Broadway 24th Floor New York, NY 10006	212-422-7282	Agency
Alpine Securities Corporation	11/3/2008	11/15/2010	NA	NA	Member	39 Exchange Place Salt Lake City, UT 84111	801-355-5588	Agency
Altemet Securities, Inc.	NA	NA	5/25/2010	5/25/2010	Member	380 Madison Ave 4th Floor New York, NY 10017	212-444-6176	Agency
Apex Clearing Corporation	6/5/2012	6/5/2012	6/5/2012	6/5/2012	Member	1700 Pacific Avenue Suite 1400 Dallas, TX 75201	214-765-1170	Clearing Firm
Archipelago Securities, LLC	8/18/2008	9/1/2010	5/25/2010	5/27/2010	Member	100 South Wacker Drive Suite 1800 Chicago, IL 60606	312-442-7046	Exchange
Arxis Securities, LLC	12/22/2014	NA	NA	NA	Member	527 Madison Avenue 18th Floor New York, NY 10022	646-565-3302	Proprietary
Athena Capital Research, LLC	7/1/2009	10/20/2010	NA	NA	Sponsored Participant	440 Ninth Avenue 11th Floor New York, NY 10001	212-931-9056	Proprietary
ATM Execution LLC	3/15/2012	3/15/2012	3/21/2012	3/21/2012	Member	599 Lexington Avenue 21st Floor New York, NY 10022	646-562-1554	Market Maker
Auerbach Grayson and Company, LLC	NA	NA	12/15/2015	NA	Member	254 45th Street Suite 16 New York, NY 10036	212-453-3553	Arbitrage/Riskless
Barclays Capital, Inc.	8/18/2008	10/1/2010	5/14/2010	5/14/2010	Member	745 7th Avenue New York, NY 10019	212-412-2125	Institutional
Bats Trading, Inc.	10/23/2008	9/1/2010	5/14/2010	5/14/2010	Member	8050 Marshall Drive Suite 120 Lenexa, KS 66214	913-815-7000	Limited Routing Facility of the Bats Exchanges
Bay Crest Partners, LLC	10/15/2008	NA	5/25/2010	5/27/2010	Member	40 Wall Street 42nd Floor New York, NY 10005	212-480-1400	Agency
Bayes Capital, LLC	1/15/2015	1/30/2015	1/30/2015	1/30/2015	Member	54 Jefferson Avenue Westwood, NJ 07675	201-660-7188	Agency
Belvedere Trading, LLC	11/1/2011	3/1/2012	11/29/2011	NA	Member	10 South Riverside Plaza #2100 Chicago, IL 60606	312-262-3420	Proprietary
Benjamin & Jerold Brokerage I, LLC	10/1/2009	NA	NA	NA	Member	80 Broad Street 5th Floor New York, NY 10005	646-201-5024	Agency
BGC Financial, LP	8/17/2009	NA	NA	NA	Member	One Seaport Plaza 19th Floor New York, NY 10038	646-346-7412	Agency
Blaylock Beal Van, LLC	5/3/2010	NA	NA	NA	Member	600 Lexington Avenue 3rd Floor New York, NY 10022	212-715-6600	Agency
Bloomberg Tradebook, LLC	10/23/2008	10/4/2010	5/14/2010	5/14/2010	Member	1633 Broadway 48th Floor New York, NY 10019	212-617-1184	Agency
Blue Fire Capital, LLC	8/18/2008	10/8/2010	5/25/2010	5/27/2010	Member	311 South Wacker Drive Suite 2000 Chicago, IL 60606	312-242-0504	Proprietary
Bluefin Trading, LLC	8/3/2009	6/1/2015	9/27/2013	8/13/2013	Member	3 Park Avenue 37th Floor New York, NY 10016	914-227-9555	Agency
BMO Capital Markets Corp.	6/18/2008	11/15/2010	7/15/2014	7/15/2014	Member	3 Times Square New York, NY 10036	212-885-4045	Agency
BMT Trading, LLC	2/1/2010	NA	NA	NA	Sponsored Participant	800 Third Avenue New York, NY 10022	212-813-0870	Proprietary
BNP Paribas Prime Brokerage, Inc.	12/3/2012	12/3/2012	NA	NA	Member	787 7th Avenue New York, NY 10019	917-472-4991	Clearing Firm
BNP Paribas Securities Corp.	8/18/2008	9/15/2010	5/25/2010	5/27/2010	Member	787 7th Avenue New York, NY 10019	212-841-3676	Proprietary
BNY Mellon Capital Markets, LLC	NA	NA	NA	1/17/2017	Member	101 Barclay Street New York, NY 10286	212-815-8393	Market Maker
BTIG, LLC	8/18/2008	11/15/2010	5/25/2010	5/27/2010	Member	600 Montgomery Street 6th Floor San Francisco, CA 94111	415-248-2225	Market Maker
C&C Trading, LLC	8/18/2008	10/11/2010	5/25/2010	5/27/2010	Member	111 Broadway Suite 808 New York, NY 10006	212-433-7589	Proprietary
Canaccord Genuity, Inc.	10/1/2013	10/1/2013	6/10/2010	6/10/2010	Member	350 Madison Avenue New York, NY 10017	212-389-8156	Market Maker
Canadian Imperial Holdings, Inc.	10/15/2008	11/15/2010	NA	NA	Sponsored Participant	300 Madison Avenue 5th Floor New York, NY 10017	212-856-3877	Proprietary
Cantor Fitzgerald & Co.	10/23/2008	2/13/2015	5/25/2010	5/27/2010	Member	110 East 59th Street 4th Floor New York, NY 10022	212-829-5226	Institutional / Agency
Capital Institutional Services, Inc.	8/18/2008	NA	5/25/2010	5/27/2010	Member	1601 Elm Street Suite 3900 Dallas, TX 75201	214-978-4767	Agency
CF Global Trading, LLC	10/23/2008	1/3/2011	NA	NA	Member	99 Park Avenue Suite 1710 New York, NY 10016	212-888-4673	Market Maker

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	Type of User	Address	Phone Number	Primary Activities
Chimera Securities, LLC	6/2/2014	6/2/2014	6/25/2014	6/25/2014	Member	225 Park Avenue South 17th Floor New York, NY 10003	646-597-6146	Proprietary Trading
CIBC World Markets Corp.	8/18/2008	11/15/2010	NA	NA	Member	425 Lexington Avenue New York, NY 10017	212-667-7030	Proprietary
Citadel Securities, LLC	10/23/2008	10/1/2010	5/14/2010	5/14/2010	Member	131 South Dearborn Street 32nd Floor Chicago, IL 60603	312-756-4416	Market Maker
Citi Order Routing and Execution, LLC	8/18/2008	9/15/2010	5/25/2010	5/27/2010	Member	11 Ewall Street Mount Pleasant, SC 29464	843-789-2166	Proprietary
Citigroup Global Markets, Inc.	9/24/2008	12/15/2010	5/25/2010	5/27/2010	Member	390-388 Greenwich Street New York, NY 10013	212-723-7700	Full Service
CJS Securities, Inc.	7/15/2009	3/15/2011	NA	NA	Member	50 Main Street Suite 325 White Plains, NY 10606	914-287-7600	Agency
Clarksons Platou Securities, Inc.	NA	NA	1/15/2015	NA	Member	410 Park Avenue Suite 710 New York, NY 10022	212-317-7099	Public Customer Business
Clearpool Execution Services, LLC	5/15/2014	5/15/2014	6/16/2014	6/16/2014	Member	17 State Street 38h Floor New York, NY 10004	212-531-8532	Public Customer Business
CLSA Americas, LLC	NA	NA	5/21/2013	5/21/2013	Member	1301 Avenue of the Americas New York, NY 10019	212-408-5719	Agency
CMT Fund XXV Limited	7/2/2012	7/2/2012	NA	NA	Sponsored Participant	500 West Monroe Street Suite 2630 Chicago, IL 60661	312-320-7897	Agency
CMT Trading, LLC	3/17/2014	3/17/2014	3/5/2014	3/5/2014	Member	500 West Monroe Street Suite 2630 Chicago, IL 60661	312-612-6930	Proprietary
CODA Markets, Inc.	10/15/2008	10/4/2010	5/26/2010	5/27/2010	Member	2624 Patriot Boulevard Glenview, IL 60026	224-521-2494	ATS
Comhar Capital Markets, LLC	2/27/2017	NA	NA	NA	Member	311 S. Wacker Drive, #2280A Chicago, IL 60606	872-205-0187	Firm Proprietary Trading
Compass Professional Services, LLC	6/15/2011	NA	NA	10/1/2015	Member	111 W. Jackson Boulevard 20th Floor Chicago, IL 60604	312-692-5010	Proprietary
ConvergEx Execution Solutions, LLC	10/15/2008	9/1/2010	5/25/2010	5/27/2010	Member	1633 Broadway 48th Floor New York, NY 10019	212-468-8456	Full Service
COR Clearing, LLC	10/15/2009	NA	NA	NA	Member	1200 Landmark Center 1299 Farnam Street Suite 800 Omaha, NE 68102	402-384-6164	Clearing Firm
Cowen and Company, LLC	8/18/2008	10/7/2010	5/14/2010	5/14/2010	Member	599 Lexington Avenue 20th Floor New York, NY 10022	646-562-1623	Market Maker
Cowen Prime Services, LLC	3/15/2011	3/15/2011	NA	NA	Member	1010 Franklin Avenue Suite 303 Garden City, NY 11530	212-702-7198	Agency
Credit Suisse Securities (USA), LLC	9/3/2008	10/1/2010	5/25/2010	5/27/2010	Member	11 Madison Avenue 24th Floor New York, NY 10010	212-538-6057	Full Service
Critical Trading, LLC	7/1/2014	NA	NA	NA	Member	120 West 45th Street Suite 120 New York, NY 10036	646-918-0529	Firm Proprietary Trading/Market Maker
Cutler Group, LP	4/1/2010	10/6/2010	NA	10/16/2015	Member	101 Montgomery Street Suite 700 San Francisco, CA 94104	415-293-3956	Market Maker
DART Executions, LLC	8/18/2008	10/1/2010	5/25/2010	5/27/2010	Member	350 North Orleans Street Suite 2N Chicago, IL 60654	312-244-5408	Proprietary
Dash Financial, LLC	10/23/2008	7/2/2012	6/9/2010	6/9/2010	Member	180 W. Adams Street 6th Floor Chicago, IL 60603	312-986-6210	Market Maker
Deutsche Bank Securities, Inc.	10/15/2008	10/11/2010	5/21/2010	5/21/2010	Member	60 Wall Street New York, NY 10005	212-250-7635	Full Service
Diffusion Markets, LLC	3/15/2016	NA	NA	NA	Member	1166 Avenue of the Americas New York, NY 10036	212-478-0140	Proprietary / Market Maker
DRW Securities, LLC	9/1/2009	11/1/2010	5/25/2010	5/27/2010	Member	540 West Madison Street Suite 2500 Chicago, IL 60661	312-542-3226	Proprietary / Market Maker
E*TRADE Securities, LLC	NA	NA	NA	6/10/2010	Member	1271 Avenue of the Americas 14th Street New York, NY 10020	703-236-8656	Agency
Electronic Transaction Clearing, Inc.	10/23/2008	9/1/2010	5/25/2010	5/27/2010	Member	660 S. Figueroa Street Suite 1450 Los Angeles, CA 90017	213-402-1564	Market Maker
Essex Radez, LLC	2/17/2009	10/1/2010	5/10/2010	5/14/2010	Member	440 South LaSalle Suite 1111 Chicago, IL 60605	312-212-1815	Service Bureau
First Clearing, LLC	8/18/2008	NA	NA	NA	Member	One North Jefferson Avenue Mail Code: H0004-095 St. Louis, MO 63103	314-875-4843	Full Service
FIS Brokerage & Securities Services, LLC	8/18/2008	10/1/2010	5/6/2010	5/6/2010	Member	2100 Enterprise Avenue Geneva, IL 60134	201-356-1488	Agency
Flow Traders US Institutional Trading, LLC	NA	NA	6/1/2016	NA	Member	1140 Avenue of the Americas 4th Floor New York, NY 10036	917-210-5020	Riskless Principal
Flow Traders US, LLC	10/1/2009	8/1/2012	2/28/2014	2/28/2014	Member	1095 Avenue of the Americas 24th Floor, Suite B New York, NY 10036	917-210-5020	Hedge Fund
G1 Execution Services, LLC	8/18/2008	12/1/2010	4/17/2010	4/17/2010	Member	440 South LaSalle Suite 3030 Chicago, IL 60605	312-986-8232	Market Maker
G2 Trading, LLC	6/1/2016	NA	NA	NA	Member	325 South Sangamon Street Chicago, IL 60607	404-697-9915	Firm Proprietary Trading Options Market Making
Gelber Securities, LLC	5/1/2015	NA	NA	NA	Member	350 N. Orleans Street 7th FLOOR Chicago, IL 60654	312-408-4354	Firm Proprietary Trading

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	Type of User	Address	Phone Number	Primary Activities
Global Execution Brokers, LP	2/1/2010	10/5/2010	12/1/2015	10/15/2015	Member	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	312- 435-4167	Institutional
Global HFT Management, LLC	10/1/2010	NA	NA	NA	Sponsored Participant	800 Third Avenue New York, NY 10022	212-813-0870	Proprietary
Global Liquidity Partners, LLC	4/21/2011	5/15/2012	NA	NA	Sponsored Participant	12 Broad Street Suite 201 Redbank, NJ 07701	773-459-4665	Agency
Goldman Sachs & Co.	10/23/2008	10/12/2010	5/14/2010	5/14/2010	Member	200 West Street New York, NY 10282	212-357-4587	Full Service
Goldman Sachs Execution & Clearing, LP	10/15/2008	10/1/2010	5/14/2010	5/14/2010	Member	200 West Street New York, NY 10282	212-357-7519	Full Service
Gordon Haskett Capital Corporation	NA	NA	NA	5/2/2016	Member	441 Lexington Avenue 10th Floor New York, NY 10017	212-883-1787	Agency
Green Street Trading, LLC	11/1/2011	NA	NA	NA	Member	660 Newport Center Drive Suite 800 Newport Beach, CA 92660	214-749-4730	Agency
Group One Trading, LP	6/2/2015	NA	NA	9/29/2015	Member	440 S. LaSalle Suite 3232 Chicago, IL 60605	312-347-8864	Options Market Maker
GSN North America, Inc.	8/18/2008	NA	NA	NA	Member	520 Madison Avenue New York, NY 10022	212-659-6292	Agency
GTS Securities, LLC	12/17/2013	5/1/2012	6/2/2014	6/2/2014	Member	545 Madison Avenue 15th Floor New York, NY 10022	212-715-2837	Proprietary
Hainey Investments Limited	6/16/2014	NA	NA	NA	Sponsored Participant	Themistoki Dervi 41 #806-807 Nicosia, Cyprus	704-248-8221	Proprietary
HAP Trading, LLC	10/1/2009	11/15/2010		6/2/2010	Member	33 Whitehall Street 6th Floor New York, NY 10004	212-380-5186	Proprietary
Hardcastle Trading USA, LLC	4/15/2009	NA	5/25/2010	5/27/2010	Member	755 Secaucus Road Suite F-1110 Secaucus, NJ 07094	201-305-8817	Proprietary
Henning-Carey Proprietary Trading, LLC	8/15/2012	NA	NA	NA	Sponsored Participant	141 W. Jackson Boulevard Suite 1801 Chicago, IL 60604	312-789-8764	Proprietary
Highbridge Capital Management, LLC	10/23/2008	NA	NA	NA	Sponsored Participant	9 West 57th Street 27th Floor New York, NY 10019	212-287-4900	Proprietary
Hilltop Securities, Inc.	10/23/2008	9/1/2010	NA	5/21/2013	Member	1201 Elm Street Suite 3500 Dallas, TX 75270	214-859-5125	Clearing Firm
HRT Financial, LLC	2/1/2010	10/1/2010	5/18/2010	5/18/2010	Member	32 Old Slip 30th Floor New York, NY 10005	212-293-1927	Proprietary
HTG Capital Partners, LLC	10/3/2016	10/3/2016	10/3/2016	10/3/2016	Sponsored Participant	601 South LaSalle Street 2nd Floor Chicago, IL 60605	312-327-4112	Proprietary
ICAP Corporates, LLC	NA	NA	3/28/2013	NA	Member	Harborside Financial Center 1100 Plaza 5, 12th Floor Jersey City, NJ 07311	212-341-9950	Agency
IEX Services, LLC	10/1/2013	10/1/2013	9/24/2013	9/24/2013	Member	7 World Trade Center 30th Floor New York, NY 10007	646-568-2337	ATS
IMC Financial Markets	8/18/2008	10/1/2010	5/25/2010	5/27/2010	Member	233 South Wacker Drive Suite 4300 Chicago, IL 60606	312-244-3320	Proprietary
Industrial and Commercial Bank of China Financial Services, LLC	5/15/2014	5/15/2014	NA	NA	Member	1633 Broadway New York, NY 10019	212-300-8520	Clearing Services
Instinet, LLC	8/18/2008	9/1/2010	5/14/2010	5/14/2010	Member	1095 Avenue of the Americas New York, NY 10036	212-310-4097	Agency
Interactive Brokers, LLC	8/18/2008	9/15/2010	5/25/2010	5/27/2010	Member	One Pickwick Plaza 2nd Floor Greenwich, CT 06830	203-618-5870	Full Service
International Correspondent Trading, Inc.	8/18/2008	NA	NA	NA	Member	525 Washington Boulevard Suite 2401 Jersey City, NJ 07310	201-222-9300	Agency
ISTRA, LLC	12/15/2011	12/15/2011	NA	NA	Sponsored Participant	230 Park Avenue 10th Floor New York, NY 10169	718-618-4929	Proprietary
ITG Derivatives, LLC	8/18/2008	11/15/2010	NA	11/12/2015	Member	601 S. LaSalle Street Suite 300 Chicago, IL 60605	312-334-8042	Market Maker
ITG, Inc.	8/18/2008	10/1/2010	5/25/2010	5/27/2010	Member	One Liberty Plaza 165 Broadway, 4th Floor New York, NY 10006	212-444-6259	Agency
Jane Street Capital, LLC	5/1/2009	11/15/2010	5/14/2010	5/14/2010	Member	One New York Plaza New York, NY 10004	212-651-6060	Agency / Proprietary
Jane Street Options, LLC	4/15/2016	NA	NA	NA	Member	One New York Plaza New York, NY 10004	2112-651-6020	Proprietary / Market Maker
Jane Street Options, LLC	1/3/2012	NA	NA	NA	Sponsored Participant	One New York Plaza New York, NY 10004	212-651-6969	Proprietary
Jefferies Execution Services, Inc.	8/26/2008	9/1/2010	5/25/2010	5/27/2010	Member	520 Madison Avenue New York, NY 10022	646-805-5415	Full Service
Jefferies Investment Advisers	7/1/2011	7/15/2011	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	Member	520 Madison Avenue New York, NY 10022	212-323-3987	Full Service
JNK Securities Corp.	11/17/2008	11/15/2010	NA	NA	Member	902 Broadway 20th Floor New York, NY 10010	212-885-6311	Agency
JP Morgan Clearing Corp.	10/23/2008	9/15/2010	NA	10/6/2015	Member	383 Madison Avenue New York, NY 10179	212-272-6655	Full Service

Company Name	BZX Approval Date	BYX Approval Date	EDGA Approval Date	EDGX Approval Date	Type of User	Address	Phone Number	Primary Activities
JP Morgan Securities, LLC	8/18/2008	9/15/2010	5/14/2010	5/14/2010	Member	383 Madison Avenue New York, NY 10179	212-622-5504	Full Service
Juliet Group, LLC	3/1/2011	3/1/2011	NA	NA	Sponsored Participant	240 E. 35th Street #3A New York, NY 10016	646-360-0595	Proprietary
Jump Trading, LLC	8/18/2008	10/1/2010	5/14/2010	5/14/2010	Member	600 West Chicago Avenue Suite 825 Chicago, IL 60654	312-930-9803	Proprietary
KCG Americas, LLC	9/15/2009	10/14/2010	1/3/2011	1/3/2011	Member	545 Washington Boulevard Jersey City, NJ 07310	201-356-4232	Agency
Keefe Bruyette & Woods, Inc.	8/18/2008	12/1/2010	6/8/2010	6/8/2010	Member	787 7th Avenue New York, NY 10019	212-887-8965	Agency
Lampert Capital Markets, Inc.	NA	2/18/2014	2/26/2014	NA	Member	477 Madison Avenue Suite 230 New York, NY 10022	(646) 367-4660	Introducing Broker
Lampost Capital, LC	NA	NA	NA	3/15/2016	Member	7777 W. Glades Road Suite 213 Boca Raton, FL 33434	(561) 883-0454	Proprietary and Public Customer Business
Latour Trading, LLC	8/17/2009	10/1/2010	5/26/2010	5/27/2010	Member	377 Broadway 10th Floor New York, NY 10013	917-388-8625	Proprietary
Leerink Partners, LLC	8/18/2008	10/5/2010	5/26/2010	5/27/2010	Member	1 Federal Street 37th Floor Boston, MA 02110	800-808-7525	Agency
LEK Securities Corporation	8/18/2008	10/1/2010	5/26/2010	5/27/2010	Member	1 Liberty Plaza 165 Broadway, 52nd Floor New York, NY 10006	212-509-2300	Agency
Lightspeed Trading, LLC	8/18/2008	11/15/2010	5/19/2010	5/19/2010	Member	1001 Avenue of the Americas 16th Floor New York, NY 10018	646-393-4814	Proprietary
Lime Brokerage, LLC	8/18/2008	10/1/2010	5/26/2010	5/27/2010	Member	625 Broadway 12th Floor New York, NY 10012	212-219-6086	Agency
Liquidnet, Inc.	9/1/2009	9/15/2010	NA	NA	Member	498 7th Avenue 12th Floor New York, NY 10018	646-660-8310	Institutional
Macquarie Capital (USA), Inc.	12/1/2009	NA	5/26/2010	5/27/2010	Member	125 West 55th Street Level 22 New York, NY 10019	212-231-2501	Agency
Marathon Trading Group, LLC	2/13/2015	NA	NA	NA	Member	100 Matsonford Road Building 3, Suite 240 Wayne, PA 19087	610-254-4890	Options Market Maker
Match-Point Securities, LLC	NA	NA	NA	11/16/2015	Member	303 East 57th Street, 26L New York, NY 10022	917-359-5734	Public Customer Business
Merrill Lynch Professional Clearing Corp.	8/18/2008	10/5/2010	5/14/2010	5/14/2010	Member	One Bryant Park NY1-100-06-01 New York, NY 10036	312-260-5601	Clearing Firm
Merrill Lynch, Pierce, Fenner & Smith Incorporated	8/18/2008	10/4/2010	5/14/2010	5/14/2010	Member	One Bryant Park New York, NY 10036	212-449-6090	Full Service
Mizuho Securities USA, Inc.	6/1/2010	1/3/2011	NA	NA	Member	320 Park Avenue 12th Floor New York, NY 10022	212-209-9338	Agency
MKM Partners, LLC	8/3/2009	NA	5/14/2010	5/14/2010	Member	300 First Stamford Place 4th Floor East Wing Stamford, CT 06902	203-987-4005	Agency
Monadnock Capital Management, LP	5/15/2009	NA	5/26/2010	5/27/2010	Member	1845 Walnut Street Suite 940 Philadelphia, PA 19103	215-405-7280	Proprietary / Market Maker
Moors & Cabot, Inc.	NA	4/2/2012	NA	NA	Member	111 Devonshire Street Boston, MA 02109	617-314-0295	Agency
Morgan Stanley & Co., LLC	10/23/2008	9/1/2010	5/14/2010	5/14/2010	Member	1585 Broadway New York, NY 10036	212-761-9324	Full Service
NASDAQ Execution Services, LLC	8/19/2008	9/1/2010	5/26/2010	5/27/2010	Member	One Liberty Plaza 165 Broadway New York, NY 10006	212-231-5177	Exchange
National Financial Services, LLC	10/23/2008	10/4/2010	5/26/2010	5/27/2010	Member	200 Seaport Boulevard Boston, MA 02210	201-915-8264	Retail / Agency
National Securities Corporation	7/1/2009	NA	NA	NA	Member	1001 Fourth Avenue Suite 3750 Seattle, WA 98154	212-417-3636	Agency
Needham & Company, LLC	10/23/2008	10/1/2010	NA	NA	Member	445 Park Avenue New York, NY 10022	212-371-8411	Market Maker
Nomura Securities International, Inc.	10/23/2008	10/1/2010	5/28/2010	5/27/2010	Member	Worldwide Plaza 309 West 49th Street New York, NY 10019	212-667-9131	Institutional
Northern Trust Securities, Inc.	8/18/2008	10/5/2010	5/26/2010	5/27/2010	Member	50 South LaSalle Street Chicago, IL 60603	312-630-6045	Market Maker
Northland Securities, Inc.	12/15/2010	12/15/2010	NA	NA	Member	45 South 7th Street 20th Floor Minneapolis, MN 55402	612-851-5934	Proprietary
Old Mission Capital, LLC	4/16/2012	4/16/2012	4/25/2012	4/25/2012	Member	314 West Superior Suite 200 Chicago, IL 60654	617-642-6120	Proprietary
Olivetree Financial, LLC	NA	NA	9/1/2016	NA	Member	2 Stamford Plaza 281 Tresser Blvd, Suite 501 Stamford, CT 06901	203-703-0000	Agency Execution
Optiver US, LLC	6/15/2009	NA	NA	NA	Member	130 East Randolph Street 13th Floor Chicago, IL 60601	312-621-9263	Proprietary / Market Maker
OTA, LLC	8/18/2008	10/7/2010	NA	NA	Member	One Manhattanville Road Purchase, NY 10577	914-460-4071	Institutional
OTR Global Trading, LLC	12/15/2008	NA	NA	NA	Member	One Manhattanville Road Purchase, NY 10577	914-460-4099	Institutional
PEAK6 Capital Management, LLC	8/1/2014	NA	NA	2/1/2016	Member	141 W. Jackson Blvd. Suite 500 Chicago, IL 60604	312-362-2357	Proprietary Trading

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PEAK6 Capital Management, LLC	11/3/2008	7/15/2011	NA	NA	Sponsored Participant	141 W. Jackson Blvd. Suite 500 Chicago, IL 60604	312-362-2401	Market Maker
Penserra Securities, LLC	8/18/2008	10/6/2010	NA	NA	Member	140 Broadway 26th Floor New York, NY 10005	212-607-3190	Agency
Pershing, LLC	8/18/2008	9/15/2010	5/26/2010	5/27/2010	Member	One Pershing Place Jersey City, NJ 07399	201-413-2826	Agency
Pictet Overseas, Inc.	6/1/2015	6/1/2015	5/26/2010	5/27/2010	Member	1000 de la Gauchetiere Ouest Suite 3100 Montreal, Quebec H3B 3W5	514-350-6263	Agency
Piper Jaffray & Co.	10/15/2008	11/15/2012	5/14/2010	5/14/2010	Member	800 Nicollet Mall Minneapolis, MN 55402	612-303-2211	Market Maker
Potamus Trading, LLC	4/15/2013	4/15/2013	4/11/2013	4/11/2013	Member	2 Seaport Lane 5th Floor Boston, MA 02210	617-855-8721	Proprietary / Market Maker
Princeton Alpha Management, LP	12/1/2015	12/1/2015	12/1/2015	12/1/2015	Sponsored Participant	61 Princeton Hightstown Rd West Windsor, NJ 08550	609-269-9212	Agency
Puma Capital, LLC	NA	NA	6/15/2016	6/15/2016	Member	287 Bowman Avenue 3rd Floor Purchase, NY 10577	212-896-2644	Proprietary Trading
Pundion, LLC	2/27/2017	2/27/2017	2/27/2017	2/27/2017	Member	230 Park Avenue 10th Floor New York, NY 10169	917-7203332	Proprietary Trading
Quantex Clearing, LLC	10/3/2011	12/27/2011	5/17/2011	5/17/2011	Member	70 Hudson Street Hoboken, NJ 07030	646-214-5608	Clearing Firm
Quantlab Securities, LP	8/18/2008	11/1/2010	5/26/2010	5/27/2010	Member	4200 Montrose Boulevard Suite 200 Houston, TX 77006	713-333-3704	Proprietary
Rackson Asset Management, LLC	10/1/2009	NA	NA	NA	Sponsored Participant	2000 Broadway Suite 22C New York, NY 10023	212-724-2567	Proprietary
Rainier Investment Management, Inc.	1/4/2010	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	Member	3 World Financial Center 200 Vesey Street New York, NY 10281	612-373-1680	Market Maker
RGM Securities, LLC	8/3/2009	10/1/2010	5/26/2010	5/27/2010	Member	221 West 6th Street Suite 2030 Austin, TX 78701	512-807-5302	Proprietary
River Cross Securities, LLLP	5/1/2009	10/5/2010	NA	NA	Member	401 City Avenue Suite 912 Bala Cynwyd, PA 19004	610-747-2333	ATS
Robert W. Baird & Co., Incorporated	10/23/2008	1/3/2011	NA	NA	Member	777 East Wisconsin Avenue Milwaukee, WI 53202	414-765-3910	Market Maker
Rosenblatt Securities, Inc.	8/18/2008	10/6/2010	5/26/2010	5/27/2010	Member	20 Broad Street 26th Floor New York, NY 10005	212-943-5225	Agency
Roth Capital Partners, LLC	8/18/2008	NA	NA	NA	Member	888 San Clemente Suite 150 Newport Beach, CA 92660	949-720-5708	Market Maker
RW Pressprich & Co.	2/17/2009	11/15/2010	6/2/2010	6/2/2010	Member	4521 Fifth Avenue New York, NY 10018	212-832-6254	Agency
SAC Capital Advisors, LP	10/23/2008	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	Member	546 Fifth Avenue New York, NY 10036	212-704-5524	Market Maker
SageTrader, LLC	3/1/2016	NA	NA	6/1/2016	Member	One Embarcadero Center Suite 1150 San Francisco, CA 94111	646-663-1084	Public Customer Business
SAL Equity Trading, GP	9/3/2008	10/5/2010	5/26/2010	5/27/2010	Member	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-2996	Institutional / Agency
Sanford C. Bernstein & Co, LLC	9/10/2008	10/21/2010	5/26/2010	5/27/2010	Member	1345 Ave of the Americas New York, NY 10105	212-823-2896	Agency
Santander Investment Securities, Inc.	4/15/2009	1/3/2011	NA	NA	Member	45 East 53rd Street New York, NY 10022	212-350-3659	Institutional
Scotia Capital (USA), Inc.	3/2/2009	9/15/2010	5/26/2010	5/27/2010	Member	1 Liberty Plaza 165 Broadway New York, NY 10006	212-225-6705	Institutional
Scottrade, Inc.	6/1/2010	11/15/2010	5/26/2010	5/27/2010	Member	12800 Corporate Hill Drive St. Louis, MO 63131	314-965-1555 x.6402	Retail
Seven Points Capital, LLC	NA	NA	5/14/2010	NA	Member	805 Third Avenue 15th Floor New York, NY 10022	212-760-0760	Agency
SG Americas Securities, LLC	9/17/2008	11/15/2011	5/14/2010	5/14/2010	Member	245 Park Avenue New York, NY 10167	212-278-5232	Proprietary
Silver Fern Investments, LLC	8/20/2015	8/20/2015	8/20/2015	8/20/2015	Sponsored Participant	533 2nd Street Encinitas, CA 92024	858-947-8650	Proprietary
Simplex Trading, LLC	3/16/2015	NA	NA	NA	Member	230 S. LaSalle Street Suite 4-100 Chicago, IL 60604	312-360-2440	Proprietary
Spot Trading, LLC	6/1/2012	NA	1/25/2013	1/25/2013	Member	440 South Lasalle Suite 2800 Chicago, IL 60605	312-362-4569	Proprietary
Stifel Nicolaus & Company, Incorporated	8/18/2008	NA	6/2/2010	6/2/2010	Member	501 North Broadway St. Louis, MO 63102	410-454-4096	Agency
Stock USA Execution Services, Inc.	NA	NA	5/26/2010	5/27/2010	Member	1717 Route 6 Suite 102 Carmel, NY 10542	845-531-2631	Agency
Stuyvesant Trading Group, LLC	8/15/2013	NA	NA	NA	Member	100 Wall Street Suite 604-A New York, NY 10005	212-433-7124	Market Maker

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Summit Securities Group, LLC	7/16/2012	7/16/2012	8/20/2012	8/20/2012	Member	2 Rector Street 16th Floor New York, NY 10006	646-651-4380	Proprietary
Sumo Captial, LLC	7/15/2013	NA	NA	10/15/2015	Member	440 S LaSalle Street Suite 2101 Chicago, IL 60605	212-433-7667	Proprietary
Sun Trading, LLC	8/18/2008	10/1/2010	5/26/2010	5/27/2010	Member	100 South Wacker Suite 300 Chicago, IL 60606	312-924-4751	Proprietary
Susquehanna Financial Group, LLLP	9/3/2008	10/5/2010	5/26/2010	5/27/2010	Member	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-2999	Institutional / Agency
Susquehanna Securities	10/15/2014	10/15/2014	10/15/2014	10/15/2014	Member	401 City Avenue Suite 220 Bala Cynwyd, PA 19004	610-617-2618	Proprietary
Synergy Capital Management, LLC	8/1/2016	NA	NA	NA	Member	141 W. Jackson Boulevard Suite 1350 Chicago, IL 60604	312-986-8869	Market Maker
TD Ameritrade Clearing, Inc.	5/3/2011	5/3/2011	NA	5/27/2010	Member	200 South 108th Avenue Omaha, NE 68154	402-970-5271	Agency
Telsey Advisory Group, LLC	1/24/2011	8/15/2014	NA	NA	Member	535 Fifth Avenue 12th Floor New York, NY 10017	212-584-4628	Agency
Tewksbury Investment Fund, Ltd.	10/23/2008	11/15/2010	NA	NA	Sponsored Participant	Washington Mall I 20th Church Street, 4th Floor Hamilton, HM 11 Bermuda	212-310-7076	Proprietary
Tewksbury Investment Fund, Ltd.	7/1/2011	7/1/2011	1/6/2015	1/6/2015	Sponsored Participant	Washington Mall I 20th Church Street, 4th Floor Hamilton, HM 11 Bermuda	610-971-5000	Proprietary
Themis Trading, LLC	8/18/2008	10/1/2010	NA	NA	Member	10 Town Square Suite 100 Chatham, NJ 07928	866-384-3647	Agency
ThinkTrade, LLC	2/1/2010	10/20/2010	1/9/2015	1/9/2015	Sponsored Participant	2210 Encintas Boulevard Suite I Encintas, CA 92024	760-452-2451	Proprietary
Timber Hill, LLC	2/16/2010	NA	NA	NA	Member	One Pickwick Plaza Suite 200 Greenwich, CT 06830	203-618-5806	Market Maker
TMT East, LLC	6/1/2015	NA	NA	NA	Member	440 South LaSalle Street Suite 1729 Chicago, IL 60605	917-834-8104	Market Maker
Tradebot Systems, Inc.	8/18/2008	9/1/2010	5/26/2010	5/27/2010	Member	1251 NW Briarcliff Parkway Suite 700 Kansas City, MO 64116	816-285-6403	Proprietary
TradeKing	10/15/2009	11/15/2010	NA	NA	Member	888 E. Las Olas Boulevard Suite 300 Fort Lauderdale, FL 33301	561-271-9290	Agency
TradeStation Securities, Inc.	8/18/2008	9/1/2010	5/25/2010	5/25/2010	Member	8050 SW 10th Street Suite 2000 Plantation, FL 33324	954-652-7656	Market Maker
TRC Helepolis, Ltd.	12/11/2009	NA	NA	NA	Sponsored Participant	377 Broadway 11th Floor New York, NY 10013	646-472-1792	Proprietary
Tripoint Global Equities, LLC	6/15/2011	NA	NA	NA	Member	130 West 42nd Street 10th Floor New York, NY 10036	917-512-0822	Proprietary
Tudor Pickering Holt & Co. Securities, Inc.	8/18/2008	10/17/2011	NA	NA	Member	1111 Bagby Suite 4900 Houston, TX 77002	713-333-2976	Agency
Two Sigma Investments, LLC	9/1/2009	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	212-775-6678	Proprietary
Two Sigma Partners Master Fund, Ltd.	3/2/2009	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	212-775-6678	Proprietary
Two Sigma Securities, LLC	10/1/2009	10/5/2010	5/27/2010	5/27/2010	Member	100 Avenue of the Americas 4th Floor New York, NY 10013	646-292-6643	Proprietary
Two Sigma Securities, LLC	7/1/2009	NA	NA	NA	Sponsored Participant	100 Avenue of the Americas 4th Floor New York, NY 10013	646-292-6643	Proprietary
UBS Securities, LLC	10/15/2008	10/1/2010	4/12/2010	4/12/2010	Member	1285 Avenue of the Americas New York, NY 10019	203-719-3275	Full Service
Ustocktrade Securities, Inc.	4/17/2015	NA	NA	NA	Member	275 Grove Street Suite 2-400 Newton, MA 02466	617-340-3041	Proprietary
ViewTrade Securities, Inc.	8/18/2008	11/15/2010	6/10/2010	6/10/2010	Member	7280 W. Palmetto Park Road Suite 105 Boca Raton, FL 33433	561-620-0306	Agency
Virtu Financial BD, LLC	11/17/2008	10/7/2010	5/27/2010	5/27/2010	Member	645 Madison Avenue 16th Floor New York, NY 10022	212-418-0118	Proprietary
Virtu Financial Capital Markets, LLC	8/18/2008	9/1/2010	5/25/2010	5/27/2010	Member	307 Camp Craft Road West Lake Hills, TX 78746	310-651-9757	Proprietary
Vision Financial Markets, LLC	4/1/2009	11/15/2010	7/13/2012	7/13/2012	Member	4 High Ridge Park Suite 100 Stamford, CT 06905	203-388-2675	Retail
Volant Liquidity, LLC	4/15/2011	NA	5/27/2010	5/27/2010	Member	7 World Trade Center Suite 3301 New York, NY 10007	646-484-3005	Proprietary
Wall Street Access	11/3/2008	10/17/2011	5/27/2010	5/27/2010	Member	17 Battery Place 11th Floor New York, NY 10004	212-232-5602	Agency
Walleye Trading, LLC	12/1/2008	11/12/2010	NA	NA	Member	2800 Niagara Lane North Plymouth, MN 55447	952-345-5226	Market Maker
Wedbush Securities, Inc.	8/18/2008	9/1/2010	5/27/2010	5/27/2010	Member	1000 Wilshire Boulevard #900 Business Conduct Los Angeles, CA 90017	213-688-4575	Market Maker
Weeden & Co, LP	8/26/2008	10/19/2010	NA	NA	Member	145 Mason Street Greenwich, CT 06830	203-861-7600	Full Service
Wells Fargo Clearing Services, LLC	7/1/2016	NA	NA	NA	N	One N. Jefferson St. Louis, MO 63103	314-875-4848	Public Customer Business

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Wells Fargo Prime Services, LLC	10/23/2008	5/16/2011	5/26/2010	5/26/2010	Member	45 Fremont Street 30th Floor San Francisco, CA 94105	415-848-4056	Market Maker
Wells Fargo Securities, LLC	8/18/2008	10/11/2010	6/9/2010	6/9/2010	Member	550 South Tryon Street, 6th Floor D1086-060 Charlotte, NC 28202	212-214-6458	Agency
Western International Securities, Inc.	8/18/2008	11/15/2010	NA	NA	Member	70 South Lake Avenue 7th Floor Pasadena, CA 91101	626-710-3110	Market Maker
Williams Trading, LLC	10/23/2008	NA	NA	NA	Member	450 Post Road East Suite 120 Westport, CT 06880	203-353-7635	Agency
Wolverine Execution Services LLC	8/18/2008	10/19/2010	5/14/2010	5/14/2010	Member	175 West Jackson Boulevard Suite 200 Chicago, IL 60604	312-884-3736	Market Maker
Wolverine Trading, LLC	10/3/2011	NA	NA	10/1/2015	Member	175 West Jackson Boulevard Suite 200 Chicago, IL 60604	312-884-3753	Proprietary / Market Maker
Xambala Capital, LLC	2/15/2012	2/15/2012	2/17/2012	2/17/2012	Member	640 W. California Avenue Suite 220 Sunnyvale, CA 94086	408-990-1942	Proprietary