



## **Exhibit A – CTA NETWORK A & CTA NETWORK B Market Data Internal and External Redistribution**

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Thank you for your interest in **CTA NETWORK A & CTA NETWORK B** market data. This questionnaire is intended to simplify user application requirements while furnishing customers and data providers (aka “vendors”) with the information needed to sanction the release of market data. Please follow the instructions below and answer all questions accurately and thoroughly to ensure timely processing of your market data request(s).

Customers should complete a separate questionnaire for each market data source (or consult your NYSE account manager for further instruction). One questionnaire may include several sites provided each site operates on the same network, utilizes a single market data vendor source and is clearly identified. If more than one location/environment exists with different levels or controls, a separate questionnaire must be completed for that location.

***All customers and vendors who wish to receive market data via an uncontrolled data feed are required to complete and submit this Exhibit A. In addition, NYSE requires:***

1. A signed copy of the NYSE Vendor Agreement (if currently not on file)
2. A Network Diagram overview
3. When applicable, screen prints demonstrating the use and/or display of **CTA NETWORK A & CTA NETWORK B** data
4. When applicable, Exhibit B for Nonprofessional Subscribers (if offering data to nonpros or on a per-quote basis)
5. When applicable, Exhibit C for “Click-on” Agreements (if offering data to nonpros or on a per-quote basis)
6. When applicable, additional Exhibit C’s or contracts corresponding to your use of the data (i.e. Delayed Data feeds, Third Party Payors, etc.)
7. A data feed request submitted by your vendor to NYSE on your behalf

***Please be sure all names and dates are consistent across all documents/contracts. All documents/contracts can be found on our website, <http://www.nyxdata.com>. All required documents should be executed and returned to your account manager or:***

New York Stock Exchange LLC  
Attn: Market Data Services  
11 Wall Street, 15<sup>th</sup> Floor  
New York, NY 10005  
Fax (212) 656-5922

**Exhibit A to the Vendor Agreement for receipt and use of  
CONSOLIDATED NETWORK A DATA AND NYSE MARKET DATA dated**

\_\_\_\_\_

**between New York Stock Exchange LLC and**

\_\_\_\_\_

**(name of organization)**

**1. How do you intend to use the market data?**

- INTERNALLY** (to employees)  
(if checked, please complete sections I, II, III, V, VI, and VII)
- EXTERNALLY** (to non-employees)  
(if checked, please complete sections I, II, IV, V, VI, and VII)
- BOTH** (Internal and External)  
(if checked, please complete ALL sections)

**2. Are you using the data for non-display purposes?**

- Yes**  
(if checked, please see [CTA Non-Display Policy](#) and complete Section II)
- No**  
(if checked, please skip Section II)

**3. Company Information:**

Website Address: _____	Main Phone Number: _____
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**4. Data feed installation:**

Installation Address	Billing Address (if different than install address)
_____ Street Address (P.O. Box number not accepted)	_____ Street Address (P.O. Box number not accepted)
_____ Street Address	_____ Street Address
_____ City, State, Province, Postal Code	_____ City, State, Province, Postal Code, Country
_____ Country	_____ Billing Contact Name

**5. Method of Access & Source of Data**

Vendor Information
Vendor Name: _____
Vendor Service: _____
Vendor Account Number(s): _____

## SECTION I - Contact Information

Customer/Subscriber must provide contact information for at least one **MAIN**, one **BILLING**, one **COMPLIANCE**, one **TECHNICAL** and one **REPORTING** contact for the purposes of addressing any appropriate notification. If any type of market data is to be received through direct access to any data provider's facilities, technical and emergency contact(s) should be designated.

Main: <input type="checkbox"/> Billing: <input type="checkbox"/> Compliance: <input type="checkbox"/> Reporting: <input type="checkbox"/> Technical: <input type="checkbox"/> Other (specify): _____	First Name _____ Last Name _____ Title _____ Phone _____ Facsimile _____ E-mail _____ Address where contact is located <input type="checkbox"/> Installation <input type="checkbox"/> Billing <input type="checkbox"/> Other (please specify) Street Address _____ City _____ State _____ Province _____ Country _____ Postal Code _____
Main: <input type="checkbox"/> Billing: <input type="checkbox"/> Compliance: <input type="checkbox"/> Reporting: <input type="checkbox"/> Technical: <input type="checkbox"/> Other (specify): _____	First Name _____ Last Name _____ Title _____ Phone _____ Facsimile _____ E-mail _____ Address where contact is located <input type="checkbox"/> Installation <input type="checkbox"/> Billing <input type="checkbox"/> Other (please specify) Street Address _____ City _____ State _____ Province _____ Country _____ Postal Code _____
Main: <input type="checkbox"/> Billing: <input type="checkbox"/> Compliance: <input type="checkbox"/> Reporting: <input type="checkbox"/> Technical: <input type="checkbox"/> Other (specify): _____	First Name _____ Last Name _____ Title _____ Phone _____ Facsimile _____ E-mail _____ Address where contact is located <input type="checkbox"/> Installation <input type="checkbox"/> Billing <input type="checkbox"/> Other (please specify) Street Address _____ City _____ State _____ Province _____ Country _____ Postal Code _____
Main: <input type="checkbox"/> Billing: <input type="checkbox"/> Compliance: <input type="checkbox"/> Reporting: <input type="checkbox"/> Technical: <input type="checkbox"/> Other (specify): _____	First Name _____ Last Name _____ Title _____ Phone _____ Facsimile _____ E-mail _____ Address where contact is located <input type="checkbox"/> Installation <input type="checkbox"/> Billing <input type="checkbox"/> Other (please specify) Street Address _____ City _____ State _____ Province _____ Country _____ Postal Code _____

## Subscriber Approval

Please provide a contact for subscriber approval only if you've selected on page 5 that you intend to provide data to **Professional Subscribers at a fixed monthly rate**. Vendors are required to request approval on a firm by firm basis.

First Name _____ Last Name _____ Title _____ Phone _____ Facsimile _____ E-mail _____ Address where contact is located <input type="checkbox"/> Installation <input type="checkbox"/> Billing <input type="checkbox"/> Other (please specify) Street Address _____ City _____ State _____ Province _____ Country _____ Postal Code _____
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## SECTION II – Non-Display Usage

Where appropriate, customers are to identify and confirm their Non-Display Use of real-time CTA Market Data. Non-Display Use is broken down to three (3) categories:

- **Category 1:**  
Fees are applicable when a data recipient’s Non-Display Use of CTA Market Data is on its own behalf.
- **Category 2 :**  
Fees are applicable when a data recipient’s Non-Display Use of CTA Market Data is on behalf of its clients.
- **Category 3:**  
Fees are applicable when a data recipient’s Non-Display Use of CTA Market Data is, in whole or in part, for the purpose of internally matching buy and sell orders within an organization. Matching buy and sell orders includes matching customer orders on a data recipient’s own behalf and/or on behalf of its clients. This category includes, but is not restricted to, use in trading platform(s), such as exchanges, alternative trading systems (ATs), broker crossing networks, broker crossing systems not filed as ATs, dark pools, multilateral trading facilities, and systematic internalization systems.

Examples of Non-Display Use under the 3 categories are, without limitation

- |  |                                  |
|--|----------------------------------|
| • Any trading in any asset class                           | • Investment analysis            |
| • Automated order or quote generation and/or order pegging | • Order verification             |
| • Price referencing for algorithmic trading                | • Surveillance programs          |
| • Price referencing for smart order routing                | • Compliance and Risk management |
| • Operations control programs                              | • Portfolio Valuation            |

Please insert a X in the appropriate boxes:

Type of Data	Category 1	Category 2	Category 3*	No Non-Display**
CTA NETWORK A Last Sale				
CTA NETWORK A Bid-Asked				
CTA NETWORK B Last Sale				
CTA NETWORK B Bid-Asked				

**\*If you selected Category 3, please list your Platforms below:**

<b>Number of Platforms:</b>	
<b>Platform Name:</b>	
<b>Platform Name:</b>	
<b>Platform Name:</b>	
<b>Platform Name:</b>	

**\*\*If you selected No Non-Display, please explain:**

## SECTION III - Internal Redistribution of Market Data

\* This section to be completed only if you intend to make real-time CTA market data available INTERNALLY (to employees).

### 1. Customer/Subscriber Certification

**CHECK** here to acknowledge that the data will be made available only to officers and employees of the Customer/Subscriber and the Customer's/Subscriber's subsidiaries listed in this document. Except as permitted in the applicable subscriber agreements governing use of market data, there will be no redistribution of the data (including electronic) to clients, other organizations, or any person outside of the Customer's/Subscriber's organization. **If your use of the data does not qualify you to check this box, please fill out section III of this questionnaire.**

Type of Data	Real-time Data	Delayed Data
CTA NETWORK A Last Sale		
CTA NETWORK A Bid-Asked		
CTA NETWORK B Last Sale		
CTA NETWORK B Bid-Asked		
NYSE MKT Index Data (ETFs, IIVs etc)		
Other (specify)		

### 2. Data feed Installation and Redistribution

- Will the data be redistributed to a location other than where it is received / installed?  Yes  No
- Will the data be used exclusively for a contingency or disaster recovery site?  Yes  No
- Please enter the location(s) where the data feed(s) will be installed and any additional locations (i.e. subsidiary company or branch office, disaster/backup site, development site, etc.) to where the data will be redistributed. **Be sure to include the total number of devices initially entitled with data at each location.**

Installation Address:	Relationship (HQ, Data Ctr, Backup)	# of NYSE (Tape A) Devices	# of NYSE MKT (Tape B) Devices

Additional Location(s):	Relationship (HQ, Data Ctr, Backup)	# of NYSE (Tape A) Devices	# of NYSE MKT (Tape B) Devices

## SECTION IV - External Redistribution of Market Data

\* This section to be completed only if you intend to redistribute CTA market data EXTERNALLY (to non-employees).

### 1. Types of Data (check all that apply)

Type of Data	Data Receiving	Redistribute as Data feed Service	Redistribute as Display Service
CTA NETWORK A Last Sale			
CTA NETWORK A Bid-Asked			
CTA NETWORK B Last Sale			
CTA NETWORK B Bid-Asked			
NYSE MKT Index Data (ETFs, IIVs etc)			
Delayed CTA NETWORK A Last Sale			
Delayed CTA NETWORK A Bid-Asked			
Delayed CTA NETWORK B Last Sale			
Delayed CTA NETWORK B Bid-Asked			
Other (specify)			

### 2. Data feed Redistribution

- A. Will you redistribute data via an uncontrolled data feed?  Yes  No
- B. Will you create a "bundled" feed consisting of several data elements?  Yes  No

If yes, please explain and/or list the data elements (i.e. Last Sale, Bid-Asked, Indices, Delayed, etc.) you plan to include in each "bundled" feed.

### 3. Delayed Data (check all that apply)

- Check here **if you will** delay a real-time datafeed to create a delayed service. In a delayed service, Last Sale and Bid-Asked prices must be delayed at least 15 minutes.
- Check here **if you will** provide index data as part of a delayed service.  
 NYSE MKT Index Data
- Check here to indicate your understanding and agreement to comply with NYSE's delayed data policies. **Phrases such as "Prices delayed 15 minutes" must be conspicuously displayed on all screens displaying delayed data.**
- Check here to acknowledge you have submitted a **screen print of the delay notice** as it will appear in your service.

### 4. Services being Offered

- A. Provide a detailed description of the service(s) you plan to offer to your subscribers.

**5. Types of Subscribers, Pricing and Sign-up Methods**

Every external (non-employee) firm or nonprofessional subscriber must sign or electronically agree to the appropriate NYSE agreement before gaining access to real-time data. Nonprofessional subscribers may sign up and agree via an electronic click-on agreement. The required agreements are stated below.

**Professional Subscribers** - Vendors are required to obtain NYSE approval (via [www.nyxdata.com](http://www.nyxdata.com)) before entitling external professional subscribers with CTA data.

**NOTE: An agreement may be signed in the name of the "Parent" company. Agreement are signed on a "firm by firm" basis, so it is not necessary for each individual at the firm to sign.**

**Nonprofessional Subscribers** - Vendors are required to *qualify* an end-user as a nonprofessional user prior to their gaining access to CTA data.

Please indicate how you will sign up subscribers for service (check all that apply)

Type(s) of User	Method of Sign-up and Pricing Model
Internal use by Employees	<input type="checkbox"/> Fixed monthly fee per user <input type="checkbox"/> Usage-based fee
Professional Subscribers	<p><b>Fixed Monthly fee per user</b></p> <input type="checkbox"/> **Hard copy of Professional Subscriber Agreement required
	<p><b>** If selected, please complete Subscriber Approval contact section (Pg 2)</b></p> <p><b>Usage-based fee</b></p> <input type="checkbox"/> Hard copy of Exhibit B for Usage-based/Nonpro Subscribers (section 1 only) <input type="checkbox"/> *Electronic version of Exhibit B (Usage-based/Nonprofessional Agreement)
	<p><b>* Also requires a copy of the Exhibit C for "Click-on" Agreements</b></p>
Nonprofessional Subscribers	<p><b>Fixed Monthly fee per user</b></p> <input type="checkbox"/> Hard copy of Exhibit B Usage-based/Nonpro Subscribers (sections 1&2) <input type="checkbox"/> *Electronic version of Exhibit B (Usage-based/Nonprofessional Agreement)
	<p><b>Usage-based fee without Capping</b></p> <input type="checkbox"/> Hard copy of Exhibit B Usage-based/Nonpro Subscribers (section 1) <input type="checkbox"/> *Electronic version of Exhibit B (Usage-based/Nonprofessional Agreement)
	<p><b>Usage-based fee with Capping (see note below)</b></p> <input type="checkbox"/> Hard copy of Exhibit B Usage-based/Nonpro Subscribers (sections 1&2) <input type="checkbox"/> *Electronic version of Exhibit B (Usage-based/Nonprofessional Agreement)
	<p><b>* Also requires a copy of the Exhibit C for "Click-on" Agreements</b></p>

**NOTE:** Vendors wishing to vend data via the usage-based (per quote) rate must complete question 6. Capping refers to each pre-qualified nonprofessional subscriber whose monthly usage cost exceeds the fixed monthly charge. Vendors may pay the fixed monthly nonprofessional monthly charge in respect of that subscriber.

**6. Usage-Based/Per-Quote Subscribers and Quote Meter Information**

Vendors who want to redistribute real-time quotes on a per quote basis may do so provided their system is able to correctly identify and count real-time quote packets for the various data providers (e.g., NYSE, NYSE MKT, NASDAQ, OPRA, etc.). A "quote packet" is defined as any data element, or all data elements, for a *single* issue (for example, open, high, low, last, volume, net change, bid, offer, size are data elements. "IBM" is a single issue.). Data elements for an ETF, such as DIA, also qualify as a quote packet. The quote meter (log file) should identify and store fee liable quotes (i.e. less than 15 minutes old) only during NYSE market hours, currently 9:30am – 4:15pm (excluding weekends and holidays).

**Usage-Based/Quote Meter Audit Requirements & Attestation**

An audit/review of the quote meter must be performed within 90 days after the start of service and annually thereafter. Please refer to the NYSE’s Quote Meter Audit Guidelines ([www.nyxdata.com](http://www.nyxdata.com)) for information and requirements regarding quote meter audits.

**NOTE: If using a quote meter, it must be clearly represented in your network/system diagram.**

Check here to indicate your understanding of and agreement to comply with NYSE’s Quote Meter Audit requirements.

## SECTION V - Technical Control & Data Display

**\* This section is required and must be completed and approved by NYSE prior to receiving real-time market data**

### 1. Technical and Administrative Control

NYSE has a device-based rate structures and requires data recipients to account for all devices that have been technically enabled to display its data. To ensure the number of users with access to CTA data (via displays and/or data feeds) being reported each month is accurate, NYSE requires firms to have an entitlement system in place.

- A. Does your firm have the technical ability to control each entitlement to CTA market data?

Data feeds  Yes  No  N/A  
[For Datafeed redistribution ONLY]

Display Service  Yes  No  N/A

Name of Entitlement System: \_\_\_\_\_ Product Name / Version: \_\_\_\_\_

- B. Is this a Proprietary System?  Yes  No  N/A

If yes, please explain the system's functionality and its ability to produce reports. **Please include as much detail as possible and attach a sample report for review (attach a separate sheet if necessary). Your entitlement report should contain the following fields: | Unique User ID | Product Name | Activation Date | De-Activation Date | Level of Access/Max Count |.**

- C. Please explain, if any, the dataflow between your permissioning and reporting databases:

**NOTE: All firms receiving a data feed are subject to an audit of their entitlement reporting methods. Unless the entitlement system is able to provide accurate historical/audit information, NYSE reserves the right to bill for all devices on your network. For audit purposes, all entitlement systems should have the ability to generate (in .csv or .txt format) and store entitlement reports for a period of no less than three years and feature the following:**

1. Separate and unique ID/Passwords for each user which are not shared
2. Prevent simultaneous access to the data by the same user ID/Password
3. Generate monthly entitlement reports for each product to identify those users who are entitled and those who are not entitled to receive a specific data providers' market data
4. Provide an audit trail identifying each entitlement transaction (additions, deletions, etc.) on a product level

- D. Does your system have the ability to perform all of the above?  Yes  No

If no, please explain:

- E. How are device entitlements controlled?

Terminal ID basis  Yes  No

User ID / Password Basis  Yes  No

Other (explain)  Yes  No If yes, explain: \_\_\_\_\_

- F. Location(s) where entitlement control will take place (if different than install address)?

### 2. Market Data Display Service (Software Development, API's, OMS's, etc.)

- A. Will you offer an API (Application Programming Interface) or DDE (Dynamic Data Exchange) as part of your display service?  
 Yes  No

If yes, please explain:



B. Will your display service be compatible with third party software (i.e. Order Management System, etc.)?

Yes  No

If yes, please explain:

C. Will the data from a display service be redistributed to additional servers, which in turn, can redistribute or “fan” data to various users, servers and/or devices?  Yes  No

If yes, please explain:

**3. Distribution of CTA Data**

A. Will CTA data be distributed over a local area network (LAN) or a wide area network (WAN)?  Yes  No

B. Please indicate the total number of devices presently on the network (**include all devices whether or not they will be receiving real-time data**). \_\_\_\_\_

## SECTION VI – Service Facilitators and Customer Affiliates

### 1. Service Facilitators

- A. Provide the name(s) and address of each service facilitator that you wish to identify. Describe the functions performed on your behalf by each service facilitator in the processing or dissemination of market data. (A service facilitator is a person or organization that assists customer(s) in processing or disseminating market data, such as cable casters, facility proprietors, equipment maintainers, switch service suppliers, sales/marketing agents, etc.; whose performance you guarantee.) - If more space is needed, please attach a separate sheet. ***If this does not apply to your firm, please check 'NONE'.***

***NOTE: Service Facilitators may not be exempt from NYSE monthly access fees.***

Facilitators (include full name & address)	Function
<input type="checkbox"/> None	

- B. Will any service facilitator(s) have access to this data?  Yes  No

If yes, please explain:

### 2. Customer Affiliates

- A. Provide the name(s) and address of each customer affiliate, which is to be covered by this agreement. You will be responsible for reporting and payment for any affiliates covered by this Exhibit A. If more space is needed, please attach a separate sheet. ***If this does not apply to your firm, please indicate 'NONE'.***

Affiliates (include full name & address)	Function
<input type="checkbox"/> None	

- B. Will any customer affiliate(s) have access to this data?  Yes  No

If yes, please explain:

## SECTION VII - Reporting

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### 1. Reporting Obligations

The NYSE requires customers/vendors to submit a total inventory of each product and professional subscribers utilizing CTA market data. This report should be submitted by the second to last business day of each month and is required to ensure accurate invoicing by NYSE either directly to you or your client. (Please refer to NYSE's Vendor Guide as in effect from time to time for more information and instructions on products codes and reporting)

Please check the box(es) corresponding to reporting requirements applicable to your use of the data:

- INTERNAL Users (Employees)**  
Any organization providing CTA data to their employees are required to report the number of users on a monthly basis. In addition, NYSE requires them to maintain records indicating the company name, installation address, number of accesses, inventory changes, type of service and the date that service began/terminated.
- PROFESSIONAL Subscribers (Non-employees)**  
Vendors providing CTA data to non-employee professional subscribers will be required to obtain NYSE approval, maintain records indicating the company name, installation address, number of accesses, inventory changes, type of service and the date that service began/terminated.  
*\* NYSE will use this information to invoice subscribers directly*
- NONPROFESSIONAL Subscribers**  
Vendors providing CTA data to nonprofessional subscribers will be required to maintain records of the name, address, employer and job function of their nonprofessional subscribers and only report the total number of nonprofessional subscribers who accessed Real-time data at least once during that month.  
*\* NYSE will use this information to invoice your firm directly*
- USAGE-BASED (per quote) Reporting**  
Vendors providing usage-based services will be required to report the total number of quotes requested that month.  
*\* NYSE will use this information to invoice your firm directly*
- DATA FEEDS**  
Vendors providing data feeds will be required to obtain approval from NYSE prior to providing data to subscribers. Vendors will be required to maintain records indicating the company name, installation address, data product and date that service began or was terminated.

### 2. Reporting Method

Please select the method of reporting you will use:

- NYSE Reporting Website**  
Report directly on the NYSE website.  
*\* This option is highly recommended for vendors who do not have a large professional subscriber base.*
- File-based Reporting**  
Report to NYSE via file based reporting - VRXML file  
*\* This option is highly recommended for vendors who have a large professional subscriber base.*
- Third Party Reporting Facilitator**

Explain:

I certify that the information provided in this questionnaire is accurate and the data will only be used in the manner outlined in this exhibit. I also understand that I may be asked to provide further information related to the entitlement system and/or its audit function and that failure to comply with NYSE requirements may result in the cancellation/termination of NYSE market data services and NYSE reserves the right to bill retroactively for any improprieties/discrepancies which are deemed non-compliant. I will promptly inform the New York Stock Exchange LLC ("NYSE") of any changes to the information given above.

**CUSTOMER**

**Signature:** \_\_\_\_\_

**Title:** \_\_\_\_\_

**Print Name:** \_\_\_\_\_

**Date Completed:** \_\_\_\_\_