



Nasdaq Disaster Recovery

CONNECTIVITY GUIDELINES

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DISCLAIMER

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1 INTRODUCTION

This document includes the main procedures and information to prepare client infrastructure and connectivity to the Nasdaq Disaster Recovery (DR) facility in Chicago, IL.

If you have additional questions, please contact us via the details on page 7.

2 CONNECTIVITY

This section details the physical connectivity details and procedure for accessing the Nasdaq DR facility for the Equities and Options markets. The new DR facility will be located within the **Equinix CH4 facility in 350 E. Cermak, Chicago, IL on the 8th floor.**

2.1 CONNECTIVITY PROCEDURES

Nasdaq offers customers direct connect capabilities to all Nasdaq markets and services at both 1Gbps and 10Gbps bandwidth speeds.

2.1.1 Direct Connect

For customers that are co-located within the Chicago facility, or have existing telecommunication (telco) circuits terminating in the building, orders can be placed via the [Nasdaq Co-Lo & Connectivity Console](#). Nasdaq will subsequently provide a Letter of Authority (LOA) for customers to cross-connect from their location within the building to Nasdaq in CH4.

In the [Nasdaq Co-Lo & Connectivity Console](#), customers will select:

- Connectivity→POP, then
- Qty #, CH4, 1G or 10G, **Nasdaq Markets**, etc.
 - Note – if a customer has an *existing* physical connection (i.e. for eSpeed, NFX, etc.) that they'd like to leverage for Equities and/or Options DR, they must note their network peer IPs in the notes section for Nasdaq to review.

2.1.2 Vendor Connectivity

Customers who do **not** have a presence in CH4 can either connect through an [extranet](#), ISV or an Equinix approved telco provider. Clients who wish to have new dedicated telco circuits installed can contact any of these connectivity [providers](#) (note this is not an exhaustive list).

2.2 MARKET DATA

Chicago is a “hot” Point of Presence (POP) for Nasdaq, in which data feeds will be disseminating during regular market hours regardless of where the matching engine is live. Customers will subscribe to the local Chicago IPs in order to receive the data for the market(s) they require. (See [UDP/IP Addresses](#), noted as “Chicago Metro Area A”)

Customers will be required to obtain approval to receive data feeds in Chicago. Extranets do not require approvals to receive the data in Chicago, but each of their downstream customers must obtain approval.

Online data feeds request forms can be found [here](#). For more information, please contact [Nasdaq Global Data Sales](#).

2.3 PORTS

As announced in our recent [Equity Trader Alert / Options Trader Alert](#), logical ports/sessions will be provided on as needed based on customer requests. Firms will need to opt-in in order to receive DR/backup order entry and market data Ports/IPs in Chicago. Pending

filing with the SEC, effective Friday, January 1, 2016, Chicago IPs/ports for order entry and TCP ITCH market data will be assessed a \$25 add-on fee per port and must be a mirror of an existing production port in Carteret.

Firms must complete a [Port Request Form](#) to request Chicago IPs/Ports. Email requests will not be accepted. Customers will need to check the box to request “a Chicago Backup/DR port”.

For new ports, firms can elect to receive a Chicago IP/port with their current order or firms can request to modify existing ports and add Chicago IPs/ports. Please include the list of ports in the Notes section or attach the list separately. Firms will continue to receive Carteret/Ashburn port pairs during the migration (with Chicago ports as an additional option).

Ashburn order entry ports will be accessible until they are shutdown on November 9, 2015. Ashburn TCP ITCH market data ports will be shut down on January 29, 2016.

2.4 IP ADDRESSING

Customers must work with Nasdaq or their third party vendor to provision for Nasdaq’s Chicago subnet: **206.200.80.0/20**. All multicast and unicast services for the six Equities and Options markets will be contained within this network range.

Multicast market data will be configured in PIM Sparse mode in Chicago, and the Rendezvous Point for all “Chicago Metro Area A” feeds will be **207.251.255.97/32**. A link to the full list of market data multicast addresses can be found on our [DR Migration](#) website, or directly [here](#).

3 CONTACTS

General queries on the Nasdaq DR Migration can be sent to TradingServices@nasdaq.com, at +1 212-231-5180, or customers may contact their [Nasdaq Account Manager](#).

3.1 CONNECTIVITY AND PORTS

For assistance with connectivity orders, please contact coloadmin@nasdaq.com.

For assistance with port request forms, please contact subscriber@nasdaq.com.

3.2 MARKET DATA

For assistance with data feed request forms – [Nasdaq Global Data Products](#) at +1 301 978 5307 or contact your [Nasdaq Data Account Manager](#).



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