



Connectivity Guide

Version: 1.2

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1. Introduction

1.1. Overview

The IEX primary trading platform, located at the CenturyLink (NJ2X) data center in Weehawken, NJ, is accessible to Subscribers from an IEX POP (point of presence). The IEX secondary (“IEX Disaster Recovery”) data center is located at the Equinix (CH4) data center in Chicago, IL. Connectivity to the IEX Disaster Recovery data center, while not a mandatory requirement, is recommended to minimize service disruption in the event of an issue at the primary trading platform data center. Weehawken is the “primary” or “hot” site, with Chicago being “secondary” or “warm”.

Please note that all connectivity options are subject to the possibility of variations in performance, including delays to system access and trade execution resulting from, for example, such events as market volatility, quote and trading volumes.

Please note that IEX will only accept Equity Port connections to the primary trading platform through the IEX POP located at the Equinix (NY5) data center in Secaucus, NJ.

IEX Data Center Locations	
Primary POP Location	Disaster Recovery Data Center*
Equinix (NY5) 800 Secaucus Rd. Secaucus, NJ	Equinix (CH4) 350 E. Cermak Rd. Chicago, IL

*Connectivity to the IEX Disaster Recovery data center, while not a mandatory requirement, is recommended.

Members are responsible for choosing their telecommunications provider and arranging for connections to the NY5 and CH4 data centers.

IEX supports the following network connectivity choices for access:

- Internet (only for certification or test sessions);
- Extranet connectivity (see list of approved Extranet Providers);
- Cross connect at Equinix Secaucus Campus
- Private line Ethernet.

For any questions regarding connectivity, please contact IEX’s Network Operations Team for more information:

Phone: 646.343.2245

Email: netops@iextrading.com



2. Connectivity Choices

2.1. Internet

Members may connect over the Internet:

- Access to Equities Port for test and certification purposes.
- IP address of the host presented to IEX must be registered.

2.2. Cross-Connect

Customers with a presence at the Equinix Secaucus data center campus may cross-connect to IEX at NY5 for access to the primary trading platform via the POP. Customers with a presence at 350 E. Cermak, Chicago, IL may cross-connect to IEX at CH4 for the Disaster Recovery platform.

- Customers with their own space in either data center may request an in-house cross-connect directly from the data center providers to connect from the member's demarcation point to the IEX's demarcation point.
- Members that do not have a presence can lease co-location space in either data center from the data center providers directly (please see appendix for contact info).
- Single mode fiber – 1Gbps or 10Gbps.
- Each physical port connection (1Gbps or 10Gbps) within the NY5 and CH4 data centers will be subject to a monthly recurring charge. See the IEX Fee Schedule posted at www.iextrading.com for more information.
- Customers desiring to cross-connect must execute a Connectivity Services Agreement and complete a Physical Port Order Form.

2.3. Extranet

Members may provision connectivity to IEX via an extranet.

- Extranets have provisioned redundant, high speed connections to IEX for use by multiple members.
- Contact information for available extranet providers can be found within the "Telecommunication Providers" section.

2.4. Direct Connectivity via Private Line Ethernet

Members may connect to IEX via Private Line Ethernet.

- No co-location space is required. Cross-connect from Telco demarcation point to IEX network via a 1 or 10 Gigabit Ethernet interface.



- Each physical port connection (1Gbps or 10Gbps) within the NY5 and CH4 data centers will be subject to a monthly recurring charge. See the IEX Fee Schedule posted at www.iextrading.com for more information.
- Contact your carrier of choice to arrange connectivity to IEX (see the “Telecommunications Providers” section).
- Customers desiring direct-connectivity must execute a Connectivity Services Agreement and complete a Physical Port Order Form.

2.5. Physical Interfaces

The following standard physical interface specifications are supported in the Secaucus and Chicago data centers. For other interface specifications contact netops@iextrading.com.

The following standard physical interface specifications are supported in NY5 & CH4:

- 10G BASE-LR (single-mode)
- 1G LX/LH (single-mode) (**not recommended, but supported**)

Note that 1Gbps network connectivity is an order of magnitude slower than 10Gbps.

3. Equity Ports

3.1. FIX Order Entry

IEX supports FIX 4.2 for order entry; refer to IEX’s [FIX Specification](#) for implementation details. With a FIX connection between your system and IEX, you can easily send orders to IEX automatically from your trade blotter, providing instant access to trading opportunities and liquidity.

3.2. Drop Copy Information

IEX supports FIX 4.2 for drop copy information; refer to IEX’s [FIX Specification](#) for implementation details. With a FIX connection between your system and IEX, you can easily receive drop copy information from IEX in real-time. They may be configured to send order flow based on various combinations of information relating to specific Subscriber firms, clearing MPIDs, and/or sessions. With proper authorization (e.g. clearing relationship), a single FIX drop copy session can be used to obtain information about multiple Subscribers.

4. Market Data

4.1. Top of Book Quote Feed (TOPS)

The Top of Book Quote Feed (TOPS) is a direct data feed product offered by IEX. TOPS provides IEX’s aggregated best quoted bid and offer position in real-time for all securities on IEX’s Order Book. Hidden orders are not represented in TOPS.



Multicast Addresses

Refer to the [TOPS Specification](#) for multicast addresses.

5. Telecommunications Providers

Some telecommunications providers available within the NY5 and/or CH4 data centers are listed below. This list is a summary and is not indicative of IEX preference or recommendation. For Telecom’s not included on the list, please contact the IEX ROC to discuss.

Company	IEX Location
AT&T Corp.	NY5 & CH4
CABLEVISION LIGHTPATH INC.	NY5
CENTURYLINK	NY5 & CH4
CFN SERVICES	NY5 & CH4
COGENT COMMUNICATIONS	NY5
FIBERMEDIA GROUP LLC	NY5
HIBERNIA ATLANTIC US, LLC	NY5 & CH4
HUDSON FIBER NETWORKS INC.	NY5
LEVEL (3) COMMUNICATIONS, LLC	NY5 & CH4
LEXENT METRO CONNECT. LLC	NY5
LIGHT TOWER FIBER	NY5
NEXGEN NETWORKS, CORP.	NY5 & CH4
SIDERA (RCN) NETWORKS, LLC	NY5 & CH4
SPREAD NETWORKS	NY5 & CH4
SPRINT	NY5 & CH4
VERIZON	NY5 & CH4
WBS CONNECT, LLC.	NY5
XO COMMUNICATIONS SERVICES, LLC.	NY5 & CH4
ZAYO (Abovenet) GROUP, LLC.	NY5

5.1. IEX Approved Extranet Providers

Company	Contact
BT Radianz	Pam Friedberg 212.205.1895 pam.friedberg@bt.com
IPC	Andrew Matlak 212.709.1150 andrew.matlak@ipc.com
NYSE Technologies, SFTI Network	Rick Gilbody 212.276.2935 rick.gilbody@theice.com



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GuavaTech	Michael Pappas 312.604.4300 michaelp@guavatech.com
Options-IT	Ken Barnes 646.205.2586 support@options-it.com