

ISE Mercury™ Technical Bulletin			
Bulletin number:	2015-02	Contact:	Joe Maresca
Date:	January 22, 2016	Telephone:	212-897-8158

This bulletin is to inform members of connectivity requirements to participate in ISE Mercury.

## Connecting to ISE Mercury

Members can use their existing connectivity to ISE and ISE Gemini for ISE Mercury provided the current bandwidth is sufficient to support data from all three exchanges.

Bandwidth requirements for ISE Mercury are provided below in this bulletin.

New members, or current members who want to upgrade their connectivity, should refer to the *Member Connectivity Guide*, ver. 3.0.0 (or higher) for complete information and procedures.

## Datacenters

ISE Mercury is located in the same datacenters as ISE and ISE Gemini.

Table 1: ISE Data Centers

Equinix NY4 (Primary Data Center)	Equinix CH1 (Disaster Recovery Data Center)
755 Secaucus Road Secaucus, NJ 07094 NPA/NXX:201/422	350 East Cermak Road 5th Floor Chicago, IL 60616 NPA/NXX:312/922

## Unicast - Production

### Direct Trading Interface (DTI)

ISE Mercury has dedicated DTI Unicast IP addresses and ports.

Existing ISE or ISE Gemini market makers (MMs) and electronic access members (EAMs) will require a new Business Unit (BU) in order to quote or route orders in ISE Mercury.

### ISE FIX Order Routing System (IORS)

IORS users will require a new FIX session to route orders to ISE Mercury.

### Market Data Interface (MDI)

ISE Mercury supports all existing market data feeds including, Top Quote, Depth, Spread, Order, Ticker and Reference data feed. All market data feeds will be disseminated on separate multicast channels in binary format only.

**PrecISE** Existing PrecISE users can leverage their current BU and account to route orders to all three exchanges. PrecISE access to ISE Mercury is available through the Away Market Routing functionality.

**Table 4: Unicast IP Addresses & Ports — Production**

Envt	IP Address	Interface	Port(s)
Primary Equinix NY4	207.231.197.5	VIP for DTI Interface (All Members)	20081 / 20082 NOTE: DTI sessions should be split between ports.
	207.231.197.6	VIP for Prem. Access Connection Gateway	20083
	207.231.196.64/27	Subnet for Prem. Access DTI interface	20091/20092
	207.231.196.192/26	Subnet for Dedicated gateways	20091/20092
	207.231.197.37	Vip for PrecISE	SSL 443
	207.231.197.38	VIP for FIX (IORS) Interface	Member-specific
	207.231.197.39	Member FTP VIP	N/A
	74.120.84.126	VPN Peer1-IPSEC Primary	N/A
	74.120.84.118	Internet PrecISE	SSL 443
Backup / DR 350 Cermak	74.120.86.199	VIP for DTI Interface (All Members)	20081 / 20082
	Premium Access is not available at 350 Cermak, Chicago,IL		
	74.120.86.200	VIP for PrecISE	SSL 443
	74.120.86.209	VIP for FIX (IORS)	Member-specific
	74.120.85.66	Internet PrecISE	SSL 443
	74.120.86.201	Member FTP VIP	N/A

**NOTE:** IP addresses in this bulletin are accurate as of the date of publication. The *Member Connectivity Guide* provides up-to-date IP address information.

## Market Data Multicast IP — Production

ISE Mercury market and reference data are disseminated on separate multicast IP/Port channels. Source and Rendezvous Points (RPs) can be found in the MDI Programmers manual on the member's website.

All ISE Mercury market and reference data feeds will be in **binary** format only. There will not be **FAST** format feeds on ISE Mercury.

For the list of ISE Mercury market and reference data channels, refer to the *MDI Programmers Manual*, ver. 10.0.10 (or higher).

---

## Bandwidth Requirements (Unicast and Multicast)

The bandwidth numbers below are a baseline for provisioning purposes only and are subject to refinement based on ISE's trading system requirements. If participating in all three exchanges, the aggregate bandwidth can be found in the *Member Connectivity Guide*.

### Unicast

**Table 5: Unicast Bandwidth Requirements — Production**

Interface	Unicast ISE Gemini Bandwidth Requirements
DTI Interface	50Mb (Minimum) Market Maker Quote Entry. Bandwidth used will be determined upon membership status (PMM/CMM/EAM) and subscriptions.
Fix Interface	56K Per Fix session
PrecISE Trade	56K Per Fix session

### Multicast

**Multicast Bandwidth Requirements — Production**

Feed	ISE Mercury Requirements/stream	
	A Stream	B Stream
Top Quote Feed	800 Mb	
Depth of Market Feed	2000 Mb	
Order Feed	15Mb	
Reference Data	250Mb	
Spread Feed	220Mb	
Trade Feed	10Mb	

---

**NOTE:** Members must also calculate total bandwidth if participating in all three exchanges.

---

---

## Further Information

If you have any questions regarding this bulletin, please contact ISE Network Engineering at (212)897-8158 or write to [jmaresca@ise.com](mailto:jmaresca@ise.com)

For documentation and the latest information regarding ISE's trading system, please login to our secure Members Area website at <https://members.ise.com>.