New York Stock Exchange LLC
NYSE American LLC
NYSE Arca, Inc.
NYSE National, Inc.
NYSE Texas, Inc.

Connectivity Fee Schedule

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General Note

A market participant that incurs fees from the New York Stock Exchange LLC, NYSE American LLC, NYSE Arca, Inc., NYSE National, Inc. or NYSE Texas, Inc. (collectively, the "Affiliate SROs") for a particular service pursuant to this Fee Schedule shall not be subject to fees for the same service charged by the other Affiliate SROs.

A. Co-Location Fees

Colocation Definitions

The following definitions are for purposes of Co-Location Fees only:

An "Affiliate" of a User is any other User or Hosted Customer that is under 50% or greater common ownership or control of the first User.

"Aggregate Cabinet Footprint" of a User or Hosted Customer is (a) for a User, the total kW of the User's cabinets, including both partial and dedicated cabinets, and (b), for a Hosted Customer, the total kW of the portion of the Hosting User's cabinet, whether partial or dedicated, allocated to such Hosted Customer.

A "Hosted Customer" means a customer of a Hosting User that is hosted in a Hosting User's co-location space.

A "Hosting User" means a User of co-location services that hosts a Hosted Customer in the User's co-location space.

A "User" means any market participant that requests to receive co-location services directly from the Exchange.

Colocation Notes

1. To qualify for a Partial Cabinet Solution bundle, a User must meet the following conditions: (1) it must purchase only one Partial Cabinet Solution bundle; (2) the User and its Affiliates must not currently have a Partial Cabinet Solution bundle; and (3) after the purchase of the Partial Cabinet Solution bundle, the User, together with its Affiliates, will have an Aggregate

Cabinet Footprint of no more than 2 kW.

- A User requesting a Partial Cabinet Solution bundle will be required to certify to the Exchange (a) whether any other Users or Hosted Customers are Affiliates of the certificating User, and (b) that after the purchase of the Partial Cabinet Solution bundle, the User, together with its Affiliates, would have an Aggregate Cabinet Footprint of no more than 2 kW. The certificating User will be required to inform the Exchange immediately of any event that causes another User or Hosted Customer to become an Affiliate. The Exchange shall review available information regarding the entities and may request additional information to verify the Affiliate status of a User or Hosted Customer. The Exchange shall approve a request for a Partial Cabinet Solution bundle unless it determines that the certification is not accurate.

- If a User that has purchased a Partial Cabinet Solution bundle becomes affiliated with one or more other Users or Hosted Customers and thereby no longer meets the conditions for access to the Partial Cabinet Solution bundle, or if the User otherwise ceases to meet the conditions for access to the Partial Cabinet Solution bundle, the Exchange will no longer offer it to such User and the User will be charged for each of the services individually, at the price for each such service set out in the Price List. Such price change would be effective as of the date that the User ceased to meet the conditions.

In addition, a User that changes its Partial Cabinet Solution bundle from one option to another will not be subject to a second initial charge, but will be required to pay the difference, if any, between the bundles' initial charges.

2. The initial and monthly charge for 2 bundles of 24 cross connects will be waived for a User that is waitlisted for a cage for the duration of the waitlist period, provided that the cross connects may only be used to connect the User's non-contiguous cabinets. The charge will no longer be waived once a User is removed from the waitlist.

- If a waitlist is created, a User seeking a new cage will be placed on the waitlist based on the date a signed order for the cage is received.

- A User that turns down a cage because it is not the correct size will remain on the waitlist. A User that requests to be removed or that turns down a cage that is the size that it requested will be removed from the waitlist.

- A User that is removed from the waitlist but subsequently requests a cage will be added back to the bottom of the waitlist, provided that, if the User was removed from the waitlist because it turned down a cage that is the size that it requested, it will not receive a second waiver of the charge.

3. When a User purchases a service that includes access to the LCN or IP network, it receives the ability to access the trading and execution systems of the NYSE, NYSE American, NYSE Arca, NYSE National, and NYSE Texas (together, the Exchange Systems) as well as of

Global OTC (the Global OTC System), subject, in each case, to authorization by the NYSE, NYSE American, NYSE Arca, NYSE National, NYSE Texas, or Global OTC, as applicable. Such access includes access to the customer gateways that provide for order entry, order receipt (i.e. confirmation that an order has been received), receipt of drop copies and trade reporting (i.e. whether a trade is executed or cancelled), as well as for sending information to shared data services for clearing and settlement. A User can change the access it receives at any time, subject to authorization by NYSE, NYSE American, NYSE Arca, NYSE National, NYSE Texas, or Global OTC. NYSE, NYSE American, NYSE Arca, NYSE National, and NYSE Texas also offer access to Exchange Systems to their members, such that a User does not have to purchase access to the LCN or IP network to obtain access to Exchange Systems. Global OTC offers access to the Global OTC System to its subscribers, such that a User does not have to purchase access to the LCN or IP network to obtain access to the Global OTC System.

4. When a User purchases a service that includes access to the LCN or IP network it receives connectivity to any of the Included Data Products that it selects, subject to any technical provisioning requirements and authorization from the provider of the data feed. Connectivity to the NMS feeds is not available over the LCN, but is available over the IP network and the NMS network described below in General Note 5. Market data fees for the Included Data Products are charged by the provider of the data feed. A User can change the Included Data Products to which it receives connectivity at any time, subject to authorization from the provider of the data feed. The Exchange is not the exclusive method to connect to the Included Data Products.

The Included Data Products are as follows:

NMS feeds CTS CQS OPRA
NYSE NYSE Aggregated Lite NYSE Alerts NYSE BBO NYSE Integrated Feed NYSE OpenBook NYSE Order Imbalances NYSE Pillar Depth NYSE Trades
NYSE American NYSE American Aggregated Lite NYSE American Alerts NYSE American BBO NYSE American Integrated Feed NYSE American OpenBook NYSE American Order Imbalances NYSE American Trades

NYSE American Options NYSE American Options Top Feed NYSE American Options Deep Feed NYSE American Options Complex Order Book
NYSE Arca NYSE Arca Aggregated Lite NYSE ArcaBook NYSE Arca BBO NYSE Arca Integrated Feed NYSE Arca Order Imbalances NYSE Arca Trades
NYSE Arca Options NYSE Arca Options Top Feed NYSE Arca Options Deep Feed NYSE Arca Options Complex Order Book
NYSE Best Quote and Trades (BQT)
NYSE Bonds
NYSE Texas NYSE Texas Aggregated Lite NYSE Texas BBO NYSE Texas Integrated Feed NYSE Texas Order Imbalances NYSE Texas Trades
NYSE National NYSE National Aggregated Lite NYSE National BBO NYSE National Integrated Feed NYSE National Trades

5. When a User purchases a service that includes access to the NMS network, upon its request it will receive connectivity to the NMS network and any of the NMS feeds that it selects, subject to any technical provisioning requirements and authorization from the provider of the data feed. Market data fees for the NMS feeds are charged by the provided of the NMS feed. The NMS network provides connectivity to the NMS feeds only.

NMS feeds CTS CQS OPRA

6. Cabinet and Power Purchasing Limits. If (i) unallocated cabinet inventory is at or below 40 cabinets, whether or not such cabinets are configured to be subdivided into partial cabinets ("Cabinet Threshold"), or (ii) the unallocated power capacity in co-location is at or below 350

kW (the "Power Threshold"), the following limits on the purchase of new cabinets ("Purchasing Limits") will apply.

a. Cabinet Limits. If only the Cabinet Threshold is reached, the following measures (the "Cabinet Limits") will apply:

- All Users with PNU cabinets will be required to either convert their PNU cabinets into dedicated cabinets or relinquish their PNU cabinets. The Exchange will notify each User with a PNU cabinet that the User has 30 business days to decide whether to contract to convert the PNU cabinet to a dedicated cabinet. If the User does not contract to use the PNU cabinet as a dedicated cabinet within such time, the PNU cabinet will be relinquished.

- The Exchange will limit each User's purchase of new cabinets (dedicated and partial) to a maximum of four dedicated cabinets. The maximum may be comprised of a mix of dedicated and partial cabinets, with two partial cabinets counting as one dedicated cabinet.

- If a User requests, in writing, a number of cabinets that, if provided, would cause the available cabinet inventory to be below 40 cabinets, the Cabinet Limits will only apply to the portion of the User's order below the Cabinet Threshold.

- A User that has purchased cabinets subject to this Cabinet Limit, or any Affiliate of such User, will have to wait 30 days from the date of the User's signed order form before purchasing new cabinets again while such Cabinet Limit remains in effect.

- If the Cabinet Threshold is reached, the Exchange will cease offering or providing new PNU cabinets to all Users and Users will not be permitted to convert a currently used dedicated cabinet to a PNU cabinet.

- When unallocated cabinet inventory is more than 40 cabinets, the Exchange will discontinue the Cabinet Limits.

b. Combined Limits. If only the Power Threshold is reached or both the Cabinet Threshold and the Power Threshold are reached, the following measures (the "Combined Limits") will apply:

- All Users with PNU cabinets will be required to either convert their PNU cabinets into dedicated cabinets or relinquish their PNU cabinets. The Exchange will notify each User with a PNU cabinet that the User has 30 business days to decide whether to contract to convert the PNU cabinet to a dedicated cabinet. If the User does not contract to use the PNU cabinet as a dedicated cabinet within such time, the PNU cabinet will be relinquished.

- A User may purchase either or both of the following, so long as the combined power usage of such purchases is no more than a maximum of 32 kW:

a. New cabinets (dedicated and partial), subject to a maximum of four dedicated cabinets with standard power allocations of 4 kW or 8 kW ("Standard Cabinets"). The purchase may be comprised of a mix of dedicated and partial cabinets, with two partial cabinets counting as one dedicated cabinet.

b. Additional power for new or existing cabinets.

- If a User requests, in writing, a number of Standard Cabinets and/or an amount of additional power that, if provided, would cause the unallocated power capacity to be below the Power Threshold or Cabinet Threshold, the Combined Limits would apply only to the portion of the User's order below the relevant threshold.

- A User that has purchased Standard Cabinets or additional power subject to these Combined Limits, or any Affiliate of such User, will have to wait 30 days from the date of the User's signed order form before purchasing new Standard Cabinets or additional power again while such Combined Limits remain in effect.

- If the Power Threshold or Cabinet Threshold is reached, the Exchange will cease offering or providing new PNU cabinets to all Users and Users will not be permitted to convert a currently used dedicated cabinet to a PNU cabinet.

- When unallocated power capacity is above the Power Threshold, the Exchange will discontinue the Combined Limits. If at that time the unallocated cabinet inventory is 40 or fewer cabinets, the Cabinet Limits would enter into effect.

c. Applicability. If the Cabinet Threshold is reached before the Power Threshold, the Cabinet Limits will be in effect until the Power Threshold is reached, after which the Combined Limits will apply.

7. Cabinet and Combined Waitlists.

a. Cabinet Waitlist. Unless a Combined Waitlist is in effect, the Exchange will create a cabinet waitlist ("Cabinet Waitlist") if the available cabinet inventory is zero, or a User requests, in writing, a number of cabinets that, if provided, would cause the available inventory to be zero. The Exchange will place Users seeking cabinets on a Cabinet Waitlist, as follows:

- Users with PNU cabinets will be required to either convert their PNU cabinets into dedicated cabinets or relinquish their PNU cabinets in accordance with the measures set forth in Colocation Note 6(a), above.

- A User will be placed on the Cabinet Waitlist based on the date its finalized order is received. A User's order will be finalized when the Exchange receives (a) User's signed order form and (b) a deposit equal to two months' worth of the monthly recurring costs of the power requested for the cabinets ordered. A User may only have one order for new cabinets on the Cabinet Waitlist at a time, and the order is subject to the Cabinet Limits. If a User changes the size of its order while it is on the

Cabinet Waitlist and any additional deposit is received by the Exchange, it will maintain its place on the Cabinet Waitlist, provided that the User may not increase the size of its order such that it would exceed the Cabinet Limits. If a User wishes to reduce the size of its order while it is on the Cabinet Waitlist, its deposit would not be reduced or returned, but would be applied against the User's first and subsequent months' invoices after cabinets are delivered until the deposit is depleted. While a User is on the Cabinet Waitlist, no Affiliate of such User may also be on the Cabinet Waitlist.

- As cabinets become available, the Exchange will offer them to the User at the top of the Cabinet Waitlist. If the User's order is completed, it will be removed from the Cabinet Waitlist. If the User's order is not completed, it will remain at the top of the Cabinet Waitlist.

- A User will be removed from the Cabinet Waitlist (a) at the User's request or (b) if the User turns down an offer of a cabinet of the same size it requested in its order. If the Exchange offers the User a cabinet of a different size than the User requested in its order, the User may turn down the offer and remain at the top of the Cabinet Waitlist until its order is completed. If the User removes its order from the Cabinet Waitlist, its deposit will be returned.

- A User that is removed from the Cabinet Waitlist but subsequently submits a new finalized order for cabinets will be added back to the bottom of the Cabinet Waitlist.

- The deposit will be applied to the User's first and subsequent months' invoices after the cabinets are delivered until the deposit is completely depleted.

- When unallocated cabinet inventory is more than 10 cabinets, the Exchange will cease use of the Cabinet Waitlist.

b. Combined Waitlist. The Exchange would create a power and cabinet waitlist ("Combined Waitlist") if the unallocated power capacity is zero, or if a User requests, in writing, an amount of power (whether power allocated to a Standard Cabinet or additional power) that, if provided, would cause the unallocated power capacity to be below zero. The Exchange would place Users seeking cabinets or power on the Combined Waitlist, as follows:

- All Users with PNU cabinets will be required to either convert their PNU cabinets into dedicated cabinets or relinquish their PNU cabinets in accordance with the measures set forth in Colocation Note 6(b), above.

- If a Cabinet Waitlist exists when the requirements to create a Combined Waitlist are met, the Cabinet Waitlist will automatically convert to the Combined Waitlist. If a Combined Waitlist exists when the requirements to create a Cabinet Waitlist are met, no new waitlist will be created, and the Combined Waitlist will continue in effect.

- A User will be placed on the Combined Waitlist based on the date its finalized order for cabinets and/or additional power is received. A User's order will be finalized when the Exchange receives (a) User's signed order form and (b) a deposit equal to two months' worth of the monthly recurring costs of (i) the power requested for the cabinets ordered and/or (ii) the additional power ordered. A User may only have one order for new cabinets and/or additional power on the Combined Waitlist at a time, and the order would be subject to the Combined Limits. If a User changes the size of its order while it is on the Combined Waitlist and any additional deposit is received by the Exchange, it will maintain its place on the Combined Waitlist, provided that the User may not increase the size of its order such that it would exceed the Combined Limits. If a User wishes to reduce the size of its order while it is on the Combined Waitlist, its deposit would not be reduced or returned, but rather would be applied against the User's first and subsequent months' invoices after cabinets are, and/or the power is, delivered until the deposit is depleted. While a User is on the Combined Waitlist, no Affiliate of such User may also be on the Combined Waitlist.

- As additional power and/or cabinets become available, the Exchange will offer them to the User at the top of the Combined Waitlist. If the User's order is completed, the order will be removed from the Combined Waitlist. If the User's order is not completed, it will remain at the top of the Combined Waitlist.

- A User will be removed from the Combined Waitlist (a) at the User's request; or (b) if the User turns down an offer that is the same as its order (e.g. the offer includes cabinets of the same size and/or the amount of additional power that the User requested in its order). If the Exchange offers the User an offer that is different than its order, the User may turn down the offer and remain at the top of the Combined Waitlist until its order is completed. If the User removes its order from the Combined Waitlist, its deposit will be returned.

- A User that is removed from the Combined Waitlist but subsequently submits a new finalized order for cabinets and/or additional power will be added back to the bottom of the waitlist.

- The deposit will be applied to the User's first and subsequent months' invoices after the cabinets are and/or additional power is delivered until the deposit is completely depleted.

- If the Combined Waitlist is in effect, when unallocated power capacity in co-location is 100 kW or more, the Exchange will cease use of the Combined Waitlist. If at that time the unallocated cabinet inventory is 10 or fewer cabinets, the Cabinet Waitlist would enter into effect.

8. Ordering Window.

a. The Exchange may announce, by customer notice, the beginning and end dates of a 90-day Ordering Window during which the Exchange may accept orders and deposits pursuant to the terms below. If the Exchange announces an Ordering Window while the

Cabinet and Power Purchasing Limits in Colocation Note 6 above or the Cabinet and Combined Waitlist provisions in Colocation Note 7 are in effect, the terms of the Ordering Window as set out in this Colocation Note 8 will temporarily supersede those terms.

b. Orders and Deposits.

(1) During the Ordering Window, Users may submit orders for their anticipated power needs, subject to the following:

- A User and its Affiliates, if any, may finalize only one order for power during the Ordering Window.

- The provision of Colocation Note 7 that prohibits the Exchange from accepting orders for more than four dedicated cabinets and/or 32 kW of power will not apply.

- A User may submit an order during the Ordering Window even if it already has an order pending on a waitlist pursuant to Colocation Note 7.

(2) Orders submitted during the Ordering Window are subject to deposits as follows: (a) for orders of 32 kW or less, a deposit equal to two months' worth of the monthly recurring costs of the amount of power ordered, or (b) for orders of more than 32 kW, a deposit equal to six months' worth of the monthly recurring costs of the amount of power ordered. A User's order will be finalized when the User's signed order form and deposit are received by the Exchange. Orders that are not finalized before the Ordering Window closes will be considered void. The deposit will be applied to the User's first and subsequent months' invoices after the power is delivered until the deposit is completely depleted. If the User withdraws its order during the Ordering Window, the deposit will be returned.

(3) A User may modify its order during the Ordering Window, but such modification will not be finalized until the User's signed modified order form and any additional deposit is received by the Exchange.

c. Allocation. After the Ordering Window ends, the Exchange will allocate available power as follows.

(1) In Step 1, the Exchange will allocate power to fill any orders that were placed before the start of the Ordering Window that are on any waitlist in effect pursuant to Colocation Note 7.

(2) In Step 2, the Exchange will allocate up to 32 kW of power to each User that finalized an order during the Ordering Window, subject to the following:

- If sufficient power is available, the Exchange will allocate 32 kW of power to each User, except that orders for less than 32 kW will be filled only up to the number of kilowatts actually ordered.

- If sufficient power is not available to allocate 32 kW of power to each User, the Exchange will allocate the available power equally among all Users (rounded to a whole number of kilowatts), except that no User will be allocated more kilowatts than it actually ordered.

- If no power remains to be allocated after Step 2, all orders finalized during the Ordering Window will be considered to be completed.

(3) In Step 3, if any power remains to be allocated after Step 2, the Exchange will allocate power to any orders that were not completely filled during Step 2 as follows:

- If sufficient power is available, the Exchange will allocate power to completely fill all remaining orders finalized during the Ordering Window.

- If sufficient power is not available to completely fill all such orders, the Exchange will allocate power to fill an identical percentage of each remaining order (rounded to a whole number of kilowatts), and such orders will be considered to be completed.

d. Any orders received by the Exchange after the end of the Ordering Window will not be included in the allocation process described in this note. Such orders are subject to the terms of Colocation Notes 6 and 7.

Initial Fee per Cabinet	
Dedicated Cabinet	$5,000
8-Rack Unit of a Partial Cabinet	$2,500
Monthly Fee for Cabinets	
Dedicated Cabinet Monthly fee is based on total kWs allocated to all of a User's dedicated cabinets	
Number of kWs	**Per kW Fee Monthly**
4 – 8	$1,200
9 – 20	$1,050
21 – 40	$950
41+	$900
8-Rack Unit of a Partial Cabinet	
Number of kWs	**Total Fee Monthly**
1	$1,500
2	$2,700
PNU Cabinet	monthly charge of $360 per kW allocated to PNU Cabinet
Cage Fees	
2– 14 Cabinets	$5,000 initial charge plus $2,700 monthly charge
15 – 28 Cabinets	$10,000 initial charge plus $4,100 monthly charge
29+ Cabinets	$15,000 initial charge plus $5,500 monthly charge

Type of Service	Description	Amount of Charge
LCN and NMS Network Access	10 Gb LX LCN Circuit and 10 Gb NMS Network Circuit	$15,000 initial charge per connection to both the LCN and NMS Network plus $24,000 monthly charge per connection to both the LCN and NMS Network. For purposes of these charges, the LCN Circuit and NMS Network Circuit are together considered to be one connection, and so Users are not subject to two initial or two monthly charges.
LCN and NMS Network Access	40 Gb LCN Circuit and 40 Gb NMS Network Circuit	$15,000 initial charge per connection to both the LCN and NMS Network plus $24,000 monthly charge per connection to both the LCN and NMS Network. For purposes of these charges, the LCN Circuit and NMS Network Circuit are together considered to be one connection, and so Users are not subject to two initial or two monthly charges.

Type of Service	Description	Amount of Charge
Partial Cabinet Solution bundles Note: A User and its Affiliates are limited to one Partial Cabinet Solution bundle at a time. A User and its Affiliates must have an Aggregate Cabinet Footprint of 2 kW or less to qualify for a Partial Cabinet Solution bundle. See Note 1 under "Colocation Notes." A purchaser of a Partial Cabinet Solution bundle must select NMS Network connections of the same size (i.e. 10 Gb or 40 Gb) as the related LCN and IP network connections.	2 kW partial cabinet, 1 LCN connection (10 Gb LX or 40 Gb), 1 IP network connection (10 Gb or 40 Gb), 2 NMS Network connections (10 Gb or 40 Gb each), 2 fiber cross connections and either the Network Time Protocol Feed or Precision Timing Protocol	$10,000 initial charge per bundle plus $16,500 monthly charge per bundle
IP Network Access	1 Gb Circuit	$2,500 per connection initial charge plus $2,750 monthly per connection
IP Network and NMS Network Access	10 Gb IP Network Circuit and 10 Gb NMS Network Circuit	$10,000 initial charge per connection to both the IP Network and NMS Network plus $12,000 monthly charge per connection to both the IP Network and NMS Network. For purposes of these charges, the IP Network Circuit and NMS Network Circuit are together considered to be one connection, and so Users are not subject to two initial or two monthly charges.

Type of Service	Description	Amount of Charge
IP Network and NMS Network Access	40 Gb IP Network Circuit and 40 Gb NMS Network Circuit	$10,000 initial charge per connection to both the IP Network and NMS Network plus $20,000 monthly charge per connection to both the IP Network and NMS Network. For purposes of these charges, the IP Network Circuit and NMS Network Circuit are together considered to be one connection, and so Users are not subject to two initial or two monthly charges.
Testing and certification IP Network Access	IP network circuit for testing and certification. Circuit can only be used for testing and certification and testing and certification period is limited to three months.	No charge.
Wireless Connection for Third Party Data	Wireless connection of Cboe Pitch BZX Gig shaped data and Cboe Pitch BYX Gig shaped data	$5,000 per connection initial charge plus monthly charge per connection of $6,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Cboe EDGX Gig shaped data and Cboe EDGA Gig shaped data	$5,000 per connection initial charge plus monthly charge per connection of $6,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of CME Group data	$5,000 per connection initial charge plus monthly charge per connection of $6,000
Wireless Connection for Third Party Data	Wireless connection of MEMX Memoir Depth data	$5,000 per connection initial charge plus monthly charge per connection of $6,000

Type of Service	Description	Amount of Charge
		Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of MIAX Pearl Equities Depth of Market Feed (DoM) data	$5,000 per connection initial charge plus monthly charge per connection of $6,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq BX TotalView-ITCH data	$5,000 per connection initial charge plus monthly charge per connection of $6,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq BX TotalView-ITCH FPGA data	$5,000 per connection initial charge plus monthly charge per connection of $7,500 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq CXC and Nasdaq CX2 data	$5,000 per connection initial charge plus monthly charge per connection of $5,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq PSX TotalView data	$5,000 per connection initial charge plus monthly charge per connection of $6,000

Type of Service	Description	Amount of Charge
		Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq PSX TotalView-ITCH FPGA data	$5,000 per connection initial charge plus monthly charge per connection of $7,500 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq TotalView-ITCH data	$5,000 per connection initial charge plus monthly charge per connection of $8,500 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq TotalView (FPGA)	$5,000 per connection initial charge plus monthly charge per connection of $11,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq TotalView-ITCH and BX TotalView-ITCH data	$5,000 per connection initial charge plus monthly charge per connection of $12,000 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Nasdaq TotalView (FPGA) and BX TotalView-ITCH data	$5,000 per connection initial charge plus monthly charge per connection of $14,500 Fees are subject to a 30-day testing period, during which the monthly charge per

Type of Service	Description	Amount of Charge
		connection is waived.
Wireless Connection for Third Party Data	Wireless connection of Toronto Stock Exchange (TSX)	$5,000 per connection initial charge plus monthly charge per connection of $8,500 Fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.
Wireless Connection for Third Party Data	Port for wireless connection	$3,000 monthly charge per port, excluding first port
Virtual Routing and Forwarding service to Trading Floor or Virtual Control Circuit*	1Mb	$200 monthly charge
	3Mb	$400 monthly charge
	5Mb	$500 monthly charge
	10Mb	$800 monthly charge
	25Mb	$1,200 monthly charge
	50Mb	$1,800 monthly charge
	100Mb	$2,500 monthly charge
Hardware Procurement Services	FIDS' engaging a hardware procurement specialist to obtain hardware on User's behalf	Procurement specialist's fees (which FIDS passes through to the procurement specialist) plus 10% service fee payable to FIDS
Managed Services	FIDS' engaging a managed services provider on User's behalf	Managed services provider's fees (which FIDS passes through to the managed services provider) plus 10% service fee payable to FIDS
Hosting Fee		$1,000 monthly charge per cabinet per Hosted Customer for each cabinet in which such Hosted Customer is hosted
Data Center Fiber Cross Connect	Furnish and install 1 cross connect	$500 initial charge plus $600 monthly charge

Type of Service	Description	Amount of Charge
	Furnish and install bundle of 6 cross connects	$500 initial charge plus $1,800 monthly charge
	Furnish and install bundle of 12 cross connects	$500 initial charge plus $3,000 monthly charge
	Furnish and install bundle of 18 cross connects	$500 initial charge plus $3,840 monthly charge
	Furnish and install bundle of 24 cross connects	$500 initial charge plus $4,680 monthly charge See Colocation Note 2.
Connection to Time Protocol Feed	Network Time Protocol Feed (Note: LCN only)	$300 initial charge plus $100 monthly charge
	Precision Time Protocol	$1,000 initial charge plus $250 monthly charge
	GPS Time Source (Note: dedicated cabinets only)	$3,000 initial charge plus $400 monthly charge
Expedite Fee	Expedited installation/completion of a User's co-location service	$4,000 per request
Change Fee***	Change to a co-location service that has already been installed/completed for a User	$950 per request
Initial Install Services*** (Required per cabinet)	Dedicated Cabinet: Includes initial racking of equipment in cabinet and provision of cables (4 hrs).	$800 per dedicated cabinet
	Partial Cabinet: Includes initial racking of equipment in cabinet and provision of cables (2 hrs).	$400 per eight-rack unit in a partial cabinet
Hot Hands Service***	Allows Users to use on-site data center personnel to maintain User equipment, support network troubleshooting, rack and stack, power recycling, and install and document cable.	$100 per half hour
Shipping and Receiving***	Receipt of one shipment of goods at data center from User/supplier. Includes coordination of shipping and receiving.	$100 per shipment
Badge Request***	Request for provision of a permanent data center site access badge for a User representative.	$50 per badge

Type of Service	Description	Amount of Charge
External Cabinet Cable Tray***	Engineer, furnish and install Rittal 5"H x 12"W cable tray on cabinet.	$400 per tray
Custom External Cabinet Cable Tray***	Engineer, furnish and install 4" H x 24" W custom basket cable tray above client's cabinet rows.	$100 per linear foot
Visitor Security Escort***	All User representatives are required to be accompanied by a visitor security escort during visits to the data center, unless visiting the User's cage. Requirement includes User representatives who have a permanent data center site access badge.	$75 per visit

* A virtual control circuit ("VCC") is between the Mahwah data center and a single end point, including a Trading Floor, while a virtual routing and forwarding service ("VRF") can be between the Mahwah data center and one or more Trading Floors. If the User chooses VCCs or a combination of a VCC and a VRF for connectivity to several Trading Floors, it will be charged separately for each connection, provided that two VCCs from the Mahwah data center to the same Trading Floor will be subject to one VCC charge so long as only one VCC is able to be active at a given time. If the User chooses one VRF for connectivity to multiple trading floors, the User will be charged for one connection.

*** These fees are waived for the move of a User's equipment within the Data Center when incurred in connection with such a move required by the Exchange ("Migration Move"). A User selected by the Exchange for a Migration Move will receive written notice (the "Notice"). The Notice will identify the 90-day period during which a User must move its equipment, which period would commence at least 60 days from the date of the Notice. Monthly recurring fees for the User's existing space based on the rate of the monthly recurring fees that the User was paying as of the date of the Notice are also waived for the month during which a User's Migration Move takes place, so the User would not incur these fees for the period of overlapping use of equipment and services in the old and new locations. In addition, the monthly recurring charges are waived for the month following the completion of a User's Migration Move, based on the rate of the monthly recurring fees that the User was paying as of the date of the Notice. No User will be required to move more than once within any 12-month period.

Co-Location: Connectivity to Third Party Systems, Data Feeds, Testing and Certification Feeds, and DTCC

Connectivity to Third Party Systems

Pricing for access to the execution systems of third party markets and other service providers (Third Party Systems) is for connectivity only. Connectivity to Third Party Systems is subject to

any technical provisioning requirements and authorization from the provider of the data feed. Connectivity to Third Party Systems is over the IP network. Any applicable fees are charged independently by the relevant third party content service provider. The Exchange is not the exclusive method to connect to Third Party Systems.

Bandwidth of connection to Third Party System	**Monthly recurring fee per connection to Third Party System**
1Mb	$200
3Mb	$400
5Mb	$500
10Mb	$800
25Mb	$1,200
50Mb	$1,800
100Mb	$2,500
200 Mb	$3,000
1 Gb	$3,500

Third Party Systems
24X
B3 Bovespa
Blue Ocean ATS (BOATS)
Boston Options Exchange (BOX)
Bruce ATS
Canadian Imperial Bank of Commerce (CIBC)
Cboe Canada
Cboe US
Chicago Mercantile Exchange (CME Group)
Investors Exchange (IEX)
Long Term Stock Exchange
MEMX
MIAX
Nasdaq Canada (CXC, CXD, CX2)
Nasdaq US Stock Market
NYFIX Marketplace
Omega
OTC Markets Group

Third Party Systems
Pragma
Small Exchange
Texas Stock Exchange (TSXE)
TMX Group

Connectivity to Third Party Data Feeds

Pricing for data feeds from third party markets and other content service providers (Third Party Data Feeds) is for connectivity only. Connectivity to Third Party Data Feeds is subject to any technical provisioning requirements and authorization from the provider of the data feed. Connectivity to Third Party Data Fees is over the IP network, with the exception that Users can connect to Global OTC over the IP network or LCN. Market data fees are charged independently by the relevant third party market or content service provider. The Exchange is not the exclusive method to connect to Third Party Data Feeds.

Third Party Data Feed providers and their partners may charge redistribution fees. When the Exchange receives a redistribution fee, it passes through the charge to the User, without change to the fee. The fee is labeled as a pass-through of a redistribution fee on the User's invoice. The Exchange does not charge third party markets or content providers for connectivity to their own feeds.

Third Party Data Feed	Monthly Recurring Connectivity Fee per Third Party Data Feed
24X	$4,000
B3 Bovespa	$3,900
Blue Ocean ATS (BOATS)	$750
Boston Options Exchange (BOX)	$1,300
Bruce ATS	$1,250
Cboe Canada	$2,000
Cboe Futures Exchange (CFE)	$1,500
Cboe Global Indices Feed	$1,500
Cboe Options Exchanges (Cboe Options Exchange, Cboe C2 Options Exchange, Cboe BZX Options Exchange, and Cboe EDGX Options Exchange)	$1,500
Cboe U.S Equities Exchanges (Cboe EDGA Equities, Cboe EDGX Equities, Cboe BYX Equities and Cboe BZX Equities)	$1,500
Chicago Mercantile Exchange (CME Group)	$3,000
Financial Industry Regulatory Authority (FINRA)	$650
Global OTC	$150
ICE Data Services Consolidated Feed ≤ 100 Mb	$200

Third Party Data Feed	Monthly Recurring Connectivity Fee per Third Party Data Feed
ICE Data Services Consolidated Feed > 100 Mb to ≤1 Gb	$500
ICE Data Services Consolidated Feed > 1 Gb	$1,000
ICE Data Services Consolidated Feed Shared Farm ≤ 100Mb	$300
ICE Data Services Consolidated Feed Shared Farm > 100 Mb to ≤ 1 Gb	$750
ICE Data Services Consolidated Feed Shared Farm >1 Gb	$2,000
ICE Data Services PRD	$300
ICE Data Services PRD CEP	$500
Intercontinental Exchange (ICE)	$1,950
Investors Exchange (IEX) Equities	$1,300
Investors Exchange (IEX) Options	$1,300
Long Term Stock Exchange	$2,600
MEMX Equities	$2,000
MEMX Options	$2,000
Miami International Securities Exchange/MIAX PEARL	$2,000
MX2 Options	$2,000
Nasdaq Stock Market	$3,000
Nasdaq Global Index Data Service (GIDS)	$100
Nasdaq UQDF & UTDF	$650
Nasdaq Canada (CXC, CXD, CX2)	$1,950
Omega	$1,300
OTC Markets Group	$1,300
Small Exchange	$1,000
Texas Stock Exchange (TXSE)	$1,300
TMX Group	$2,500

Connectivity to Third Party Testing and Certification Feeds

The Exchange provides connectivity to third party testing and certification feeds provided by third party markets and other content service providers. Pricing for third party testing and certification feeds is for connectivity only. Connectivity to third party testing and certification feeds is subject to any technical provisioning requirements and authorization from the provider of the data feed. Connectivity to third party testing and certification feeds is over the IP network. Any applicable fees are charged independently by the relevant third party market or content service provider. The Exchange is not the exclusive method to connect to third party testing and certification feeds.

Connectivity to third party certification and testing feeds	$100 monthly recurring fee per feed

Connectivity to DTCC

Pricing for connectivity to DTCC feeds is for connectivity only. Connectivity to DTCC feeds is subject to any technical provisioning requirements and authorization from DTCC. Connectivity to DTCC feeds is over the IP network. Any applicable fees are charged independently by DTCC. The Exchange is not the exclusive method to connect to DTCC feeds.

5 Mb connection to DTCC	$500 monthly recurring fee
50 Mb connection to DTCC	$2,500 monthly recurring fee

B. Wireless Connectivity

The following fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.

Type of Service	Description	Amount of Charge
Wireless Connection between Mahwah Data Center and Secaucus access center	10 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $9,000
Wireless Connection between Mahwah Data Center and Secaucus access center	50 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $13,500
Wireless Connection between Mahwah Data Center and Secaucus access center	100 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $23,000
Wireless Connection between Mahwah Data Center and Secaucus access center	200 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $44,000
Wireless Connection between Mahwah Data Center and Carteret access center	10 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $10,000
Wireless Connection between Mahwah Data Center and Carteret access center	50 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $15,000
Wireless Connection between Mahwah Data Center and Carteret access center	100 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $25,000

Type of Service	Description	Amount of Charge
Wireless Connection between Mahwah Data Center and Carteret access center	200 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $45,000
Wireless Connections between (a) Mahwah Data Center and Carteret access center and (b) Mahwah Data Center and Secaucus Data Center	50 Mb Circuits	$15,000 initial charge for both connections plus monthly charge for both connections of $22,000
Wireless Connections between Mahwah Data Center and one or both of (a) Markham access center and (b) TR2 access center	1 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $6,000
Wireless Connections between Mahwah Data Center and one or both of (a) Markham access center and (b) TR2 access center	5 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $15,500
Wireless Connections between Mahwah Data Center and one or both of (a) Markham access center and (b) TR2 access center	10 Mb Circuit	$10,000 per connection initial charge plus monthly charge per connection of $23,000

Wireless Connectivity Note

A customer may purchase a Wireless Connection between the Mahwah Data Center and one or both of (a) the Markham access center and (b) the TR2 access center. If the customer chooses to connect to both Canadian access centers, the northbound and southbound wireless services operate in a distinct manner. Northbound, the same data is sent to both the Markham and TR2 access centers. Southbound, the customer may choose the Mb of data it sends from each Canadian access center, so long as the combined total Mb entering the Mahwah Data Center equals no more than the total Mb of the wireless circuit.

C. Wireless Connectivity to Market Data

The following fees are subject to a 30-day testing period, during which the monthly charge per connection is waived.

Type of Service	Amount of Charge
NYSE Integrated Feed: Wireless Connection in Carteret access center	$5,000 per connection initial charge plus monthly charge per connection of $10,500

Type of Service	Amount of Charge
NYSE Arca Integrated Feed: Wireless Connection in Carteret access center	$5,000 per connection initial charge plus monthly charge per connection of $10,500
NYSE National Integrated Feed: Wireless Connection in Carteret access center	$5,000 per connection initial charge plus monthly charge per connection of $5,250
NYSE Integrated Feed and NYSE Arca Integrated Feed: Wireless Connection in Carteret access center	$5,000 per connection initial charge plus monthly charge per connection of $18,500
NYSE Integrated Feed, NYSE Arca Integrated Feed, and NYSE National Integrated Feed: Wireless Connection in Carteret access center	$5,000 per connection initial charge plus monthly charge per connection of $21,000
NYSE Integrated Feed: Wireless Connection in Secaucus access center	$5,000 per connection initial charge plus monthly charge per connection of $10,500
NYSE Arca Integrated Feed: Wireless Connection in Secaucus access center	$5,000 per connection initial charge plus monthly charge per connection of $10,500
NYSE National Integrated Feed: Wireless Connection in Secaucus access center	$5,000 per connection initial charge plus monthly charge per connection of $5,250
NYSE Integrated Feed and NYSE Arca Integrated Feed: Wireless Connection in Secaucus access center	$5,000 per connection initial charge plus monthly charge per connection of $18,500
NYSE Integrated Feed, NYSE Arca Integrated Feed, and NYSE National Integrated Feed: Wireless Connection in Secaucus access center	$5,000 per connection initial charge plus monthly charge per connection of $21,000
NYSE Integrated Feed: Wireless Connection in Markham, Canada access center	$5,000 per connection initial charge plus monthly charge per connection of $6,500
NYSE Arca Integrated Feed: Wireless Connection in Markham, Canada access center	$5,000 per connection initial charge plus monthly charge per connection of $6,500
NYSE Integrated Feed: Wireless Connection in TR2 access center	$5,000 per connection initial charge plus monthly charge per connection of $6,500
NYSE Arca Integrated Feed: Wireless Connection in TR2 access center	$5,000 per connection initial charge plus monthly charge per connection of $6,500

D. Meet-Me-Room ("MMR") Services

Initial Fee per MMR Cabinet	
Dedicated Cabinet of between 4 kW and 8 kW	$5,000
MMR Monthly Fee for Cabinets Monthly fee is based on total kWs allocated to all of a Telecom's cabinets	
Number of kWs	**Per kW Fee Monthly**
4 - 8	$1,200
9 - 20	$1,050
21 – 40	$950
41 +	$900

Type of Service	**Description**	**Amount of Charge**
Data Center Fiber Cross Connect	Furnish and install 1 cross connect	$500 initial charge plus $600 monthly charge
	Furnish and install bundle of 6 cross connects	$500 initial charge plus $1,800 monthly charge
Conduit Sleeve Fee	Install (5 hrs) and maintain conduit sleeve supporting Telecom circuit into data center	$1,000 initial charge plus $2,000 monthly charge per conduit sleeve
Carrier Connection Fee	Maintain Telecom's connections to its non-Telecom data center customers	$1,150 monthly charge per connection
Connection to Time Protocol Feed	Precision Time Protocol	$1,000 initial charge plus $250 monthly charge
Expedite Fee	Expedited installation/completion of MMR service	$4,000 per request
Change Fee	Change to a service that has already been installed/completed for a Telecom	$950 per request

Type of Service	Description	Amount of Charge
Hot Hands Service	Allows Telecom to use on-site data center personnel to maintain Telecom equipment, support network troubleshooting, rack and stack, power recycling, and install and document cable	$100 per half hour
Shipping and Receiving	Receipt of one shipment of goods at data center on behalf of Telecom (includes coordination of shipping and receiving)	$100 per shipment
Visitor Security Escort	All Telecom representatives are required to be accompanied by a visitor security escort during visits to the data center	$75 per visit

E. FIDS Circuits

Type of Service	Fees
Optic Access Circuit - 10 Gb	$5,000 initial charge plus $1,900 monthly charge
Optic Access Circuit - 40 Gb	$5,000 initial charge plus $4,000 monthly charge
Optic Low Latency Circuit - 10 Gb	$5,000 initial charge plus $3,950 monthly charge
Optic Low Latency Circuit - 40 Gb	$5,000 initial charge plus $8,250 monthly charge