

Nasdaq Equities Port Request Form

Please email the completed form to subscriber@nasdaq.com.

Order Type

| Δ | do |
|---|----|

Removal - (Please see second page)

Modify - Please list ports to modify below

Ports to modify

Sponsored Access (required)

| Is your member organization planning to use this port for Sponsored Access? | Yes No |
|---|--------|
| If yes, provide the name of the party that is being sponsored by your firm. | |

Connectivity

| Which service provider will you be using? | Co-Lo ¹ Extranet CPC | | | |
|--|----------------------------------|--|--|--|
| OUCH 5.0 OUCH 4.2 TCP OUCH 4.1 TCP Flite | FIX 4.2 | | | |
| FIX 4.1 Nasdaq FIX (SUMO) FIX ACES RASH | IPort 1.1 RASHPort 1.0 | | | |
| QIX CTCI - ACES CTCI - MFQS OUC | H Purge RASH Purge | | | |
| How many sessions would you like to request? (Default: 1) | | | | |
| Do you want to copy or upgrade an existing account? | Yes No | | | |
| If yes, please provide the session to copy and the details below can be omitted. | | | | |
| Has this version of your front-end application been certified? | Yes No | | | |
| What type of connection do you want to order? | Test ² NTF Production | | | |
| Would you like to request a Chicago Backup/DR Port? | Yes No | | | |

| Enable attribution for registered market makers? ² | | Yes | | No |
|---|-------------------------|----------------------|-------|------------------------|
| OUCH Only Post Only Do Nothing (default) Cancel Order OUCH Only Price Slide Do Nothing (default) Cancel Order | Cancel / Re-Enter Order | | | |
| Self Match Prevention (by MPID) | | | | |
| Yes No Cancel Oldest Cancel Newest | | Decrement Both Sides | | |
| Self Match Prevention (by ORG Level) (Allows for firms to enable across MPIDs of com | mon ov | wnership) | | |
| Yes No Cancel Oldest Cancel Newest | | Decrement Both Sides | | |
| Minimum Acceptable Quantity (MAQ) (by MPID) | | Yes | | No |
| FIX / RASH Only | | | | |
| Do you want routing capabilities | | Yes | | No |
| If Yes, please indicate the default routing strategy. If not specified, INET will be the default routing strategy. | | SCAR | | SCAN |
| For a list of other available routing strategies please go to the following link: http://www.nasdaqtrader.com/content/ProductsServices/Trading/StrategyG.pdf | | LIST | | |
| What MPID will be giving up on this port (i.e. NSDQ)? | | | | |
| Do you want to enable Atrribution on the MPID? ³ | | Yes | | No |
| What clearing number will give up MPID clear? | | | | |
| What is the desired max order size? (Default: 25,000) | | | | |
| What is your source IP address? | | | | |
| Post Only NMS Price Slide (FIX/Rash: MPID only; OUCH/Flite: port/MPID) Price Slide (default) | | Cance | el Or | der |
| Post Only Display Price Slide (FIX/Rash: MPID only; OUCH/Flite: port/MPID) Price Slide (default) | | Cance | el Or | der |
| OUCH / FIX / RASH Only⁴ | | | | |
| Do you want Cancel and Disconnect Enabled? | | Yes | | No |
| If yes, select one below: | | | | |
| Cancel All Keep Cross Keep GTC (FIX, RASH Only) | | Keep GT | C & (| Cross (FIX, RASH Only) |
| Re-priced Limit on Open/Close Order Handling (FIX/Rash: MPID only; OUCH/Flite: port/MPID) | | Re-Price (| defa | ult) Reject |

| Midpoint Trade Now (FIX/Rash: MPID only; OUCH/Flite: port/MPID) | | | |
|---|--|--|--|
| What is the desired max single order notional value? | | | |

QIX Only

| Do you want a prop quote port? | Yes No |
|---|--------|
| What version of execution/kill do you want? (Default: 00) | 00 01 |
| What cancel/reject version do you want? (Default: 00) | 00 01 |

QIX Only

| Enhanced (PRM) | Enhanced (PRM) with full | Enhanced (PRM) with full functionality - HTA 2007-179 | | |
|--|------------------------------------|---|----------------------|--|
| SplitSymbols | Use Milliseconds | UsePassportBehavior | SendPendingAck | |
| SendCancelAck | SendReplaceAck | SuppressAck | | |
| Reactive Trade Now (F | ix, RASH Only) | Disable ETC Rollover | | |
| Equities Trading: Drop | о Сору | | | |
| Drop (OUCH Only) | RASH Drop (RASH Only) | FIX Drop (OUCH Only) | FIX Drop (RASH Only) | |
| Please provide the MPID(s |) you would like to drop | | | |
| FIX Only Please provide th | e Sendercomp(s) you would like to | o drop. | | |
| QIX UM Only If you are usin | ng QIX, please select the types of | messages you wish to drop. (Che | eck one) | |
| Quotes | Executions | ı | | |
| Please select the messages you wish to receive on the drop session. (Check all that apply) | | | | |
| Accepts | Breaks | cels Executions | Rejects (FIX Only) | |
| FIX Only Please select the | protocol version applicable | | | |
| FIX 4.0 | FIX 4.1 | 4.2 | | |

Removal Requests

| OUCH | FIX | RASHPort | Market Data | DROP | QIX | CTCI |
|------|-----|----------|---------------------|------|-----|------|
| | | | Reasons for removal | | | |
| | | | Reasons for removal | | | |
| | | | Reasons for removal | | | |
| | | | Reasons for removal | | | |

Contact Information

| | Contact Name | Phone | Email |
|----------------|--------------|-------|-------|
| Order | | | |
| Business | | | |
| Trader | | | |
| Technical | | | |
| Security Admin | | | |

Contact Information

| Phone | Email | |
|--------------------|-------|--|
| Street/Room # | | |
| City / State / Zip | | |

Additional Comments and/or Request Notes

Order Authorization

| Firm Name | MPID/Firm ID | |
|---------------------------------------|--------------|--|
| Authorized Contact: (Please Print) | | |
| Signature | Date | |

- NASDAQ PHLX LLC, The NASDAQ Stock Market LLC, and NASDAQ BX, Inc. General 2, Section 22 allows market participants to enter into sponsored access relationships. Sponsored Access
 is defined in these rules as an arrangement whereby a member, member organization or Participant permits its customers to enter orders into the exchange's trading system that bypass the
 member's, member organization's or Participant's trading system and are routed directly to the exchange, including routing through a service bureau or other third party technology provider.
- 2. Attribution is only available to registered market makers.
- 3. The Test option above is only applicable to order entry equity ports.
- 4. The automatic cancel feature is offered through FIX, RASHPort and OUCH implementation. You understand that Nasdaq provides a best effort attempt to cancel orders upon disconnection. In the event your connection is disconnected, nevertheless, you are required to call the Nasdaq Trade Desk at +1 212 231 5100 to status orders. There is no guarantee that the automatic cancel feature provided by Nasdaq will be error free or operate without interruption. By signing below, you agree and acknowledge that Nasdaq is not liable or responsible in any way for any orders, which may fail to be cancelled using the automatic cancel feature. ** Please refer to http://Nasdaqtrader.com/Trader.aspx?id=PriceListTrading2 for the latest price list.

All services and products requested on this form are governed by the terms in the Nasdaq U.S. Services agreement http://www.Nasdaqtrader.com/content/AdministrationSupport/ AgreementsTrading/Nasdaq_access_agreement.pdf and the Nasdaq Transaction Services Policies http://www.Nasdaqtrader.com/ Content/AdministrationSupport/AgreementsTrading/ NTSPolicies.pdf document. If you do not receive a written confirmation from Nasdaq within 3 business days that your request has been received and processed, please contact Nasdaq Subscriber Services at 212 231 5180 or subscriber@Nasdaqomx.com.

Please be advised that beginning on January 2, 2013, all new port requests from subscribers must be received no later than 3:00PM EST to guarantee processing for the next trading day. In the event that Nasdaq receives a request after 3:00PM EST, every effort will be made by Subscriber Services to process the request for the next day, but delivery will not be guaranteed. In all cases, Subscriber Services will respond promptly with an estimated date of completion.

Port Request Form Appendix

OUCH – Price Slide: Price sliding occurs on all Nasdaq[®] markets when an incoming, bookable order would lock or cross a protected quote at another market center; i.e. a non-attributable order will book at the locking price and display at one minimum price increment away from the locking price (if displayable). Price sliding allows orders submitted at impermissible prices to be booked in a sensible and convenient way. This setting dictates how the system handles the slid order after the market data updates:

- Do Nothing: Remain booked and displayed (if applicable) as is.
- Cancel Order: Order will be canceled back to the entering party.
- Cancel / Re-enter Order: If a non-attributable order previously locked another market center, the order will be cancel/replaced to book and display (if applicable) at the previously locking price. If the order previously crossed an away market center, the order will be canceled back to the entering party.

OUCH – Post Only: Incoming Post Only orders are subject to repricing when it would lock or cross a displayed order on Nasdaq's order book; i.e. the order will book and display at one minimum price increment away from the locking price. This setting dictates how the system handles the Post Only order if the order's original limit price would no longer lock or cross a displayed order on the Nasdaq order book:

- Do Nothing: Remain booked and displayed as is.
- Cancel Order: Order will be canceled back to the entering party.

Post Only NMS Price Slide: This setting determines how the system handles an incoming Post Only order prior to the order booking on the Nasdaq order book, if the order would lock or cross a protected quote at another market center:

- Price Slide: Book at the locking price and display one minimum price increment away from the locking price.
- Cancel Order: Cancel the order back to the entering party (i.e. order never books).

Post Only Display Price Slide: This setting determines how the system handles an incoming Post Only order prior to the order booking on the Nasdaq order book, if the order would lock or cross a displayed order on the Nasdaq's order book:

- Price Slide: Book and display one minimum price increment away from the locking price.
- Cancel Order: Cancel the order back to the entering party (i.e. order never books).

Post Only Fact Sheet: http://nasdaqtrader.com/content/productsservices/trading/postonly_factsheet.pdf

Self Match Prevention: Configurable on a port level, prevents orders sent with the same MPID from executing against each other. Can configure to cancel the oldest of two potentially matching orders or decrement the shares from Self Match Prevention Fact Sheet: http://www.nasdaqtrader.com/content/productsservices/trading/selfmatchprevention.pdf

Fat Finger/Pre -Trade Risk Management(PRM): Nasdaq's risk management offers a variety of parameters to control order flow to mitigate risk and exposure.

PRM Page: http://www.nasdaqtrader.com/trader.aspx?id=prm

Routing Capabilities: Routing is available on RASH, QIX and FIX connections, which allows orders to be sent to external market centers to access liquidity outside of Nasdaq's order book. Nasdaq Routing Information: http://www.nasdaqtrader.com/trader.aspx?id=routing

Intermarket Sweep Orders (ISO): ISO orders will sweep the order book of the routing destination, regardless of the advertised NBBO. ISO orders can be sent for Nasdaq order books or to external markets as Directed ISO orders. Nasdaq Routing Strategies and Order Types Guide: http://www.nasdaqtrader.com/content/productsservices/trading/ workstation/ rash_ strategy.pdf

Reactive Trade Now: Configurable on a port level on RASH and FIX connections, allows a booked order to automatically remove liquidity against locking or crossing contra-side orders when the booked order becomes locked by a displayed order. Trade-Now and Midpoint Trade-Now Fact Sheet: http://nasdaqtrader.com/content/productsservices/trading/trade- now-fact-sheet.pdf

Midpoint Trade Now: Configurable on a port level for OUCH and Flite connections, and on an MPID level for RASH and FIX connections, allows a booked order to automatically remove liquidity against locking or crossing contra-side orders when the booked order becomes locked by a Midpoint Peg Post Only order.

Trade-Now and Midpoint Trade-Now Fact Sheet: http://nasdaqtrader.com/content/productsservices/trading/trade- now-fact-sheet.pdf

QIX: QIX is designed specifically for management of proprietary Market Maker quotes while allowing for order entry and routing as well. QIX Information Page: http://www.nasdaqtrader.com/trader.aspx?id=qix

Connectivity Options: Nasdaq offers the connectivity options of Co-locating their servers and equipment within the Nasdaq Data Center, Direct Circuit connectivity, or connecting through an Extranet.

CoLo: http://www.nasdaqtrader.com/trader.aspx?id=colo

Direct Connect: http://www.nasdaqtrader.com/trader.aspx?id=directconnect

Extranets: http://www.nasdaqtrader.com/content/productsservices/trading/extranets.pdf

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