

# Routing Strategies and Order Types Guide

NASDAQ<sup>®</sup> offers a single, streamlined platform with superior technology and increased trading efficiency. To better serve our customers, NASDAQ provides users with various sophisticated routing strategies and order types and for trading all U.S. equity securities.

## Routing Strategies:

### SCAN

First attempts to execute against orders available on the NASDAQ book at a price equal to or better than the NBBO. If shares remain unexecuted after routing they are posted on the NASDAQ book. Once the order is posted to the NASDAQ book, if it is subsequently locked or crossed, the system will not route out again.

### DOTA

After 9:30 a.m., ET, DOTA behaves as SCAN. Prior to 9:30 a.m., NYSE- and NYSE Amex-listed security orders will be sent to the primary for the open.

### STGY

Behaves similar to SCAN, except that the order will route out again after posting to the NASDAQ book if the order is subsequently locked or crossed.

### DOTM

After 9:30 a.m., ET, DOTM behaves as STGY. Prior to 9:30 a.m., NYSE- and NYSE Amex-listed security orders will be sent to the primary for the open.

### TFTY and QTFY

Thrifty (TFTY) accesses NASDAQ OMX BX<sup>SM</sup> (BX<sup>SM</sup>), low-priced liquidity venues and the New York Stock Exchange (NYSE). All securities are eligible, however Tape B and Tape C securities will not route to the NYSE. All orders using the TFTY strategy must have a limit price and must be entered between 9:30 a.m. and 4:00 p.m., ET. QTFY acts the same as TFTY but checks the NASDAQ book before routing.

Immediate or Cancel (IOC) orders will not route to NASDAQ. Orders with a Time-in-Force of Day will route to NASDAQ after checking the other destinations and post on NASDAQ.

### SKIP

Behaves like SCAN but does not send orders to non-Reg NMS protected market centers.

### SAVE and QSAV

SAVE accesses BX, NASDAQ, NYSE, all other protected quotes and additional destinations. All securities are eligible, however Tape B and Tape C securities will not route to the NYSE. If shares remain unexecuted after routing they are posted on the NASDAQ book. Once the order is posted to the NASDAQ book, if it is subsequently locked or crossed, the system will not route out again. QSAV behaves similar to SAVE but checks the NASDAQ book before routing.

### DOTI and DOTZ

Attempts to execute against orders in the NASDAQ book at a price equal to or better than the NBBO. If unfilled, it will then route to BX where it will also attempt to execute at the NBBO or better. If still unfilled, the order will route to NYSE or NYSE Amex where the order will remain until it is executed or cancelled. DOTZ behaves as DOTI but does not route to BX.

### Directed Orders

This unique order is directed to a market center other than NASDAQ as specified by the entering party. Directed orders do not check the NASDAQ book and are routed at the entered price and entered quantity. If unexecuted, the order (or unexecuted portion thereof) shall be returned to the entering party. This order type can be entered as an Intermarket Sweep Order (ISO), and may only be used for orders with time-in-force (TIF) of Immediate or Cancel (IOC).

### MOPP

Routes to all protected quotes for display size only. Depending on the time-in-force on the order, the remaining shares will be posted to the NASDAQ book or be cancelled back to the entering party. Once an order posts to NASDAQ, it is no longer eligible for routing. Customers can use MOPP to post on the NASDAQ book and sweep all protected quotes, and then print to the FINRA/NASDAQ Trade Reporting Facility<sup>TM</sup> (TRF<sup>TM</sup>).

### SKNY

Behaves like STGY, but opts out of sending orders to non-Reg NMS protected market centers.

## NASDAQ Only Order Types:

### Intermarket Sweep Orders (ISO)

Indicate that the entering firm has already checked all other protected quotes before coming to NASDAQ. This order will not route. It will trade at NASDAQ's best prices regardless of prices in other market centers.

### Post-Only Orders

The Post-Only order is designed to promote displayed liquidity and provide users control over trading costs. Post-Only orders that would lock the NASDAQ book will be posted on the book.

### Price-To-Comply Orders

Comply with the Reg NMS Order Protection Rule and Locked and Crossed market rule by re-pricing and converting into a non-displayed order. Buy orders will be priced at the inside offer and sell orders will be priced at the inside bid. If the market moves, the order will be re-priced to the new inside. In addition, if the market moves such that the display of the original entered price would not result in a locked market, the order will be displayed at its original entered price.<sup>1</sup>

<sup>1</sup> Orders entered via OUCH will be re-priced upon entry if necessary, but will not continue to re-price as the market moves. However, firms may configure their OUCH ports such that if an order would be re-priced more aggressively, it will be canceled back to the firm.



## NASDAQ Cross Order Types:

### On-Open Orders

Specifically request an execution at the opening price.

- Can be limit-on-open or market-on-open.
- Accepted beginning at 7:00 a.m., ET, each day.

### Imbalance-Only Open Orders

Provides liquidity intended to offset on-open orders during the Opening Cross.

- Must be priced (limit); no market imbalance-only orders.
- Imbalance-only buy/sell orders only execute at or above/below the 9:30 a.m., ET, offer/bid.
- Accepted beginning at 7:00 a.m., ET, each day.

### On-Close Orders

Specifically request an execution at the closing price.

- Can be limit-on-close or market-on-close.
- Accepted beginning at 7:00 a.m., ET, each day.

### Imbalance-Only Close Orders

Provides liquidity intended to offset on-close orders during the Closing Cross.

- Must be priced (limit); no market imbalance-only orders.
- Imbalance-only buy/sell orders only execute at or above/below the 4:00 p.m., ET, bid/ask.
- Accepted beginning at 7:00 a.m., ET, each day.

### Intraday Cross Orders

- Can include the next cross only, the next cross and all subsequent crosses excluding the Post-Close Cross at 4:30 p.m., ET, or the next cross and all subsequent crosses including the Post-Close Cross.
- Please note: Intraday cross orders do not participate in the Opening or Closing Crosses.

### NASDAQ Crossing Network

(all times Eastern)

Opening Cross	Closing Cross
9:30 a.m.	4:00 p.m.
Intraday Crosses	Post-Close Cross
10:45 a.m.	4:30 p.m.
12:45 p.m.	
2:45 p.m.	

## Attributes of NASDAQ Order Types:

### Anonymous

Orders leverage NASDAQ's anonymous MPID (NSDQ), allowing you to be displayed in the market place without revealing your MPID.

### Reserve

Orders allow you to display only a fraction of your entire order.

- Have a round lot display size and corresponding non-display size.
- Incoming order flow has access to both the display and non-display portion of a booked reserve order.
- Minimum share quantity for a displayed order is 100 shares; this amount is replenished when the amount falls below 100 shares.

### Pegged

Orders allow clients to price orders relative to the current market price for a security.

- Only supported between 9:30 a.m. and 4:00 p.m., ET.
- Offsets allow a client to peg an order with an incremental difference, in \$0.01 increments, from the NBBO and can be either positive (higher price) or negative (lower price).
- There are three types of pegged orders:
  - Primary Peg: Peg an order to the same side of the market.
  - Market Peg: Peg an order to the opposite side of the market.
  - Mid-Point Peg: Peg an order to the mid-point of the market. These orders will peg in half-penny increments in the event of an odd spread.

### Minimum Quantity

Orders are entered for execution with a minimum share quantity. NASDAQ only accepts Minimum Quantity orders with a time-in-force of zero seconds (IOC).

### Discretionary

Orders are displayed on the book at one price while passively trading at a more aggressive discretionary price. The discretionary portion of the order is not entered on the book, and only becomes active as an IOC order when shares are available within the discretionary range. Discretion can also be combined with Pegging, Reserve and non-DOT routing strategies.

### Non-Display

Orders are hidden from the marketplace. All incoming order flow can interact with hidden orders until hidden size is exhausted at the specified price.



## Time-In-Force (TIF) Options Available For Order Types:

Time-In-Force	Behavior (all times Eastern)
Market Hours Immediate or Cancel	Immediately executable upon entry between 9:30 a.m. to 4:00 p.m., or canceled.
System Hours Immediate or Cancel	Immediately executable upon entry between 7:00 a.m. to 8:00 p.m., or canceled.
Market Hours Day	Executable between 9:30 a.m. to 4:00 p.m., on the day the order is entered.
System Hours Day	Executable between 7:00 a.m. to 8:00 p.m., on the day the order is entered.
Good-til-Market Close	Executable between 7:00 a.m. to 8:00 p.m. If entered prior to the closing cross any unexecuted orders will be returned to entering party after the Closing Cross; if entered after the cross will be treated as SIOC.
Market Hours Good 'til Canceled	Executable between 9:30 a.m. to 4:00 p.m., on the day the order was submitted until canceled or order is 365 days old.
System Hours Good 'til Canceled	Executable between 7:00 a.m. to 8:00 p.m., on the day the order was submitted until canceled or order is 365 days old.
System Hours Expire Time	If not executable upon entry, any unexecuted shares shall remain available for execution for the amount of time specified by the entering party.
All Crosses	Eligible to participate in all Intraday Crosses and the Post-Close Cross. Any remaining shares after a cross are eligible for subsequent Intraday Crosses, including Post-Close at 4:30 p.m. Not eligible for Opening and Closing Crosses.
Regular Hours Cross	Eligible to participate in all Intraday Crosses. Any remaining shares after a cross are eligible for subsequent Intraday Crosses. Not eligible for Opening, Closing, and Post-Close Crosses.
Next Cross	Eligible for the next Intraday Cross only. Unexecuted shares are cancelled back to the entering party.
<b>Good-til-Canceled TIFs</b>	
Do Not Reduce Orders	If a dividend is processed for a stock, the order price will not be adjusted.
Do Not Increase Orders	If a dividend is processed for a stock, the order quantity will not be adjusted.