THE NASDAQ HALT CROSS

NASDAQ® strives to provide fair executions for investors through an open and transparent process that creates a single price for halt resumptions based on supply and demand.

The NASDAQ Halt Cross is designed to:

> Provide fair executions at a single price that maximizes volume and is reflective of supply and demand in the market.

> Maximize transparency for halt resumptions by disseminating timely imbalance information to investors.

> Create an open process in which all investors have the ability to enter orders and participate in price discovery.

TIMELINE OF THE HALT CROSS

Quote-only Period: Pre-open quoting, order entry and information dissemination begins.

> NASDAQ begins accepting quote and order entry.

> Indicative clearing price and imbalance information dissemination begins.

> Entered orders can be canceled.

> No executions occur before the halt resumption.

> Quote-only period is 5 minutes.

> An open and transparent process that creates a single price for halt resumptions based on supply and demand.

Resumption of Trading:

> The Halt Cross begins, an execution occurs, and a bulk print is sent to the tape.

> Price is set by volume.

> No circuit breaker on execution price.

> After the cross, regular trading begins.

NASDAQ may extend quote-only period, if necessary.

Volatility during the quote-only period will result in a 1-minute automatic extension. An extension will be triggered by a movement of 10% or 50 cents (whichever is greater) based on the price immediately prior to the cross and the dissemination 15-seconds prior to the cross.

NASDAQ OMX®

ORDER TYPES FOR THE HALT CROSS

> Regular market orders, limit orders and quotes are all eligible to participate.

> All time-in-force types are eligible to participate.

> There are no imbalance only orders or special order types.

> Orders and Quotes will not be removed by the exchange during the halt, but may be cancelled at any time by firms.

IMBALANCE DATA DISSEMINATION

Halt information is disseminated during the quote-only period on the Net Order Imbalance Indicator (NOII), which is available via the NASDAQ OMX Trader® website and NASDAQ TotalView®. Information includes:

Indicative Clearing Price

> Price at which the opening book would clear based on current quotes and orders.

> This will be populated through the Current Reference Price, Near Price and Far Price.

Paired Shares

> Number of shares matched for execution at the Indicative Clearing Price.

Imbalance

> Total shares that cannot be matched for execution and side of executable shares.

Dissemination Frequency

> Every five seconds.

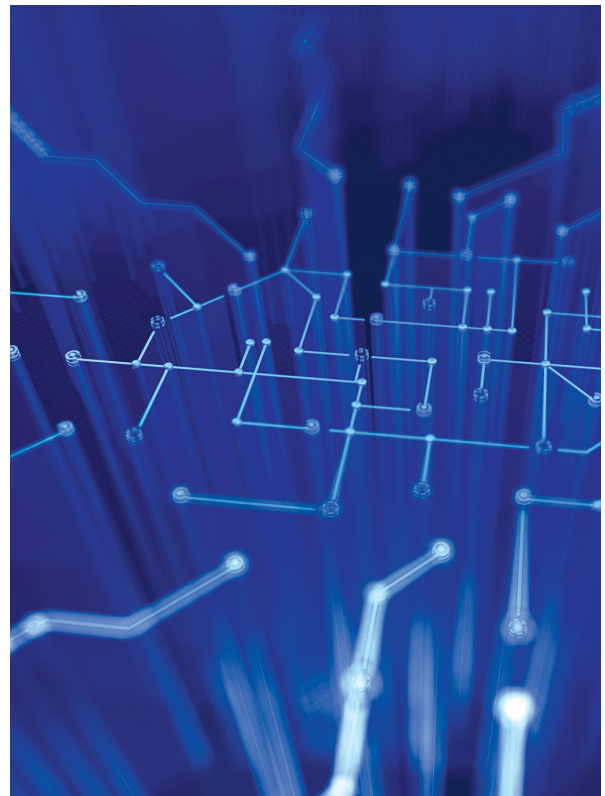# EXECUTION PRIORITY AND ALGORITHM

Execution Priority

> Price/time with reserve size after displayed size at each price.

Execution Algorithm

> Maximize number of shares executed.

Tiebreakers

> Minimize the distance from last NASDAQ trade before the halt.

More Information

For more information, contact your Transaction Services U.S. Market Sales Representative at **+1 800 846 0477** or sales@nasdaqomx.com.