Information Memo

TO: All NYSE and NYSE Alternext US Members, Member Organizations and
Vendors Interfacing with the Common Customer Gateway (CCG)

SUBJECT: **New Database (SDBK): Stock Migration Plan for NYSE and
NYSE Alternext US Securities**

Route To: **Business Leaders, Technology and Operations Officers, Trading Desks and Order
Rooms**

As previously announced, NYSE Euronext will be migrating NYSE and NYSE Alternext US cash equities from the
SuperDOT® (SDOT) databases to a newly implemented Super Display Book (SDBK) database, providing significant
improvements in performance and functionality. The migration will be a phased approach on a stock by stock basis.
This notice is intended to inform member firms how changes in functionality will be implemented over the several
phases.

Phased Implementation:

The new SDBK database and functionality will be implemented on a stock by stock basis in several phases. Each phase
will deliver additional functionality as noted in the following section. Phase I of this implementation will begin on or
about March 13, 2009 in a limited number of stocks. As stocks are targeted for migration to SDBK, they will be added
to an SDBK Stock List that will be made available via NYSE Trader at http://traderupdates.nyse.com. The initial few
symbols however, will be for live production beta testing and will be announced after they complete their first
settlement cycle. These will be low volume securities to start the program in production.

Functionality and Operational Considerations for Migrated Stocks:

As stocks are migrated to SDBK, the following functional changes and implementation considerations have been made.
Any functionality that will not be implemented in Phase I has been noted below.

- All GTC and GTX orders currently residing only at the post will automatically be migrated into the new SDBK
  database the evening prior to the migration; your firm need not take any action.
- All GTC and GTX booth orders that were locally entered at the booth or have been routed to the post from the
  booth will be deleted the evening prior to the migration to SDBK. Firms wishing to receive a 'UROUT' message
  for these orders must submit a cancel the day before the migration.
- BBSS® users will not be able to route orders directly to the Post for migrated stocks; they must first be sent to a
  broker's handheld.
  Note: In a later phase, functionality will be implemented to enable BBSS routing to the post.

- All Crossing Session I orders will be rejected and GTX orders will be handled as regular GTC orders for migrated stocks. Firms wishing to participate in a crossing execution facility must connect to NYSE MatchPoint^{sm}.
- All Cash, Next Day and Seller's Option orders will be rejected for migrated stocks.
- Administrative response messages such as Price is Correct, Stop Stock and TLTC will no longer be supported for migrated stocks.
- Firm mnemonic settings for Algo Routing, Default Routing and Price Filter will no longer be supported.
- Enhanced Cancel and Cancel Replace processing will be implemented for migrated stocks:
  - "Delete" messages will not be issued when part of a targeted order that is being cancel/replaced has been fully or partially executed. Once the Cancel/Replace message has been fully processed, SDBK will now generate a "Replaced" message with an updated leaves quantity in Tag 151; or a "Cxl Reject" message if the target order is fully executed, reducing replacement order to zero.
  - All the replacement order information on "Replaced" messages will be sent in response to Cancel Replace order, including the current leaves quantity in Tag 151. The "Replaced" message will contain <Tag 37> - OrderId with the value received in <Tag 11> - ClOrderId from the Cancel Replace message (Msg Type "G").
  - SDBK will reject subsequent cancellation messages when there is a previous cancellation message that has not been fully processed.
  - SDBK will support partial cancel functionality using the Order Cancel request. Cancel Replace orders with a quantity less than the original order quantity will be rejected.
    Note: In a later phase, changes will be implemented to accept reduction of order quantity via a Cancel Replace request.
- New Partial Round Lot (PRL) Processing will be implemented; the odd lot portion of a PRL will be separated from the round lot portion and subject to standard odd lot pricing rules. Firms will receive execution reports for round lot(s) and the odd lot portion separately.
- Post routed order quantity will be increased from 3 million shares to 6.5 million shares. The auto execution limit remains the same at 1 million shares.
- Order Acknowledgements will be generated when the order has been received by the matching engines (Display Book.)
- Once all stocks have been migrated to SDBK, a new expanded customer's account information will be returned (up to 32 characters).
- A firm/connection level flag will be implemented to return expanded Activity ID numbers. Firms wishing to receive existing Activity ID formats need not make any changes.
- Cancellation on disconnect:
  1. In the event that an internal connection to the Matching Engine is lost, all subsequently submitted messages will be rejected until the connection is restored.
  2. In a later phase, a new service controlled on a firm level flag will be implemented that in the event that a firm loses its CCG connection, CCG will initiate an Order Cancel request on behalf of the firm for all open "Day" orders and current day GTC/GTX orders. When the firm regains connectivity, CCG will send any executions and UROUTs for any canceled orders that have not been sent to the firm.
- In a later phase, a new "Done for Day" service controlled on a firm level flag will be implemented to issue a 'Done for Day' message for all open Day orders residing at the post once the stock has closed on a trade or 4:30, whichever comes first.

Fallback Considerations:

In the event of an SDBK issue where fallback to SuperDot is required, the following functional changes and operational considerations should be noted:

- Firms will be notified of the affected stocks via an NYSE Trader alert message.
- All orders routed to SDBK, including same day and prior day GTC orders, will be canceled. Every effort will be made to return UROUTs to customers for these orders.

- If fallback occurs during the trading session, new orders for the affected stocks will not be accepted until the fallback to SDOT is complete.
- Once fallback to SDOT is complete, firms will be notified via an NYSE Trader alert message.
- New orders will be accepted and processed by SDOT and all existing SDOT functionality will be applied.

Testing

The NYSE will make the SDBK functionality available for testing in the UAT Environment. For testing arrangements, please contact our **Service Desk at 1-866-873-7422 or send an email to firmtesting@nyx.com** - please place "SDBK Testing" in the subject line.

If you have any business questions relating to the SDBK integration, please contact your NYSE Relationship Manager.

Reference Materials:
- January 20, 2009 – New Database (SDBK) Stock Migration and Continuation of Reduced Latency to NYSE and NYSE Alternext US" - http://www.nyse.com/pdfs/012009TradingTechInfoMemo-SDBK.pdf
- February 3, 2009 - Technical Update to January 20, 2009 Information Memo http://www.nyse.com/pdfs/022009TradingTechInfoMemo-SDBK.pdf
- February 26, 2009 - New Common Customer Gateway$_{SM}$ (CCG) Release 3.0 http://www.nyse.com/pdfs/NYSETECH_INFOMEMO022609.pdf