

# Notice to Participating Organizations and Members



April 9, 2009

2009-016

## TSX QUANTUM ORDER ENTRY GATEWAY

As part of TMX Group's continuing efforts to provide our customers with world class trading technology and performance, we are pleased to provide information on the implementation of the new TSX Quantum Order Entry Gateway ("Quantum Gateway"). The Quantum Gateway will replace the existing TSX/TSX Venture Order Entry Gateway, also referred to as MRDS, for order entry processing on both TSX and TSX Venture symbols. Customer connectivity for order entry will migrate from MRDS to the Quantum Gateway in a phased approach in consultation with a broad range of market participants.

From the TSXPress series of performance enhancements starting in 2006, to the introduction of the TSX Quantum Trading Engine in 2008, to the May 2009 migration of TSX Venture Exchange symbols to TSX Quantum, TMX's technology efforts have continually provided for reduced latency and increased performance for our customers. The Quantum Gateway continues our commitment by providing further improvements in response time and throughput capabilities, and will allow our customers to realize the full benefits of the Quantum Trading Engine. The Quantum Gateway is designed to support the dramatic increase in messaging rates and performance demands from the trading community and will help strengthen the Canadian market to compete on a global scale.

We have attempted to minimize the effort required for market participants to test the Quantum Gateway by not introducing any new order entry functionality at this time. However, please note that the protocol compliance rules documented in existing versions of STAMP v5.0.1 and FIX v2.0.1 specifications will be enforced for all messages submitted to the Quantum Gateway. Validating messaging compliance against the STAMP and FIX protocol specifications will provide for improved efficiencies and performance for all order flow handled by the Quantum Gateway. As a result of enforcing the protocol compliance rules, market participants will be required to successfully complete a certification process before establishing connectivity to the new Quantum Gateway.

The Quantum Gateway GTE environment is expected to be available to participants in mid-May 2009 to initiate the certification and connectivity process. Following the certification and connectivity phase the new Quantum Gateway and MRDS will operate in parallel to ensure that order entry for all TSX and TSX Venture symbols will be supported through both gateways throughout the migration process. To fully prepare market participants for the migration to the new Quantum Gateway, TMX will publish complete testing, certification, and migration dates and processes shortly in additional Notices to Participating Organizations and Members.

The Quantum website, the central repository for all information relating to TSX Quantum, will be updated regularly with information related to the Quantum Gateway migration and is located at [www.tsx.com/en/trading/tsxquantum/index.html](http://www.tsx.com/en/trading/tsxquantum/index.html).

Over the coming weeks TMX will also be contacting market participants with current connections to MRDS to obtain feedback, discuss the migration process, and address any questions or concerns regarding the Quantum Gateway migration. In the meantime, market participants can contact their TMX

Account Managers with any questions regarding the Quantum Gateway migration.

Abigail Etches	(416) 947-4476
Andrew Grovestine	(416) 947-4798
Stan Grunzeweig	(416) 947-4724
Michael Taylor	(416) 947-4313

Questions regarding GTE or the certification and connectivity process should be directed to TSX Vendor Services at (416) 947-4705.

### **About TMX Group (TSX-X)**

TMX Group's key subsidiaries operate cash and derivative markets for multiple asset classes including equities, fixed income and energy. Toronto Stock Exchange, TSX Venture Exchange, Montreal Exchange, Natural Gas Exchange, Boston Options Exchange (BOX), Shorcan, Equicom and other TMX Group companies provide trading markets, clearing facilities, data products and other services to the global financial community. TMX Group is headquartered in Toronto with offices in Montreal, Calgary and Vancouver. For more information about TMX Group, visit our website at [www.tsx.com](http://www.tsx.com).

A French version of this notice is available on our web site at [www.tsx.com](http://www.tsx.com). Une version française de cet avis est disponible sur notre site Web à l'adresse [www.tsx.com](http://www.tsx.com).